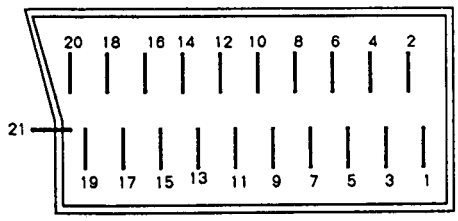
SONY KVM1421U

MODEL

SERVICE MANUAL

21-pin Euro Connector Configuration



PIN	SIGNAL	SPECIFICATION
1	Audio output	0.5Vrms/1kilohm or less
2	Audio input	0.5Vrms/10kilohms or more
3	Audio output	0.5Vrms/1kilohm or less
4	Earth (audio)	
5	Earth (B-input)	
6	Audio input	0.5Vrms/10kilohms or more
7	B-input	0.7Vp-p/75ohms
8	Function switching	9.5V to 12V
9	Earth (G-input)	
10		
11	G-input	0.7Vp-p/75ohms
12		
13	Earth (R-input)	
14	Earth (blanking)	
15	R-input	0.7Vp-p/75ohms
16	Fast blanking	1V to 3V/75ohms
17	Earth (video)	
18	Earth (fast blanking)	
19	Video output	1Vp-p/75ohms
20	Video input	1Vp-p/75ohms
21	Screening plug	

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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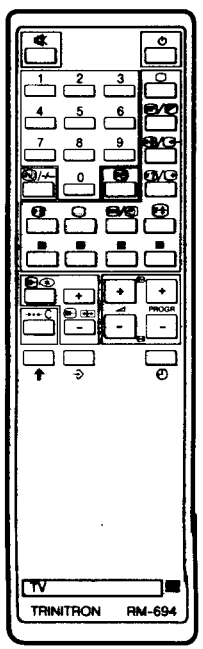
SECTION 1
GENERAL

1-1. PRESETTING OF CHANNELS

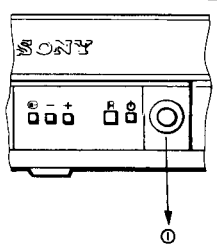
After having installed the TV, you now need to preset TV channels. Up to 60 programme positions are at your disposal. For channel presetting use the buttons with the red symbols on the Remote Commander.

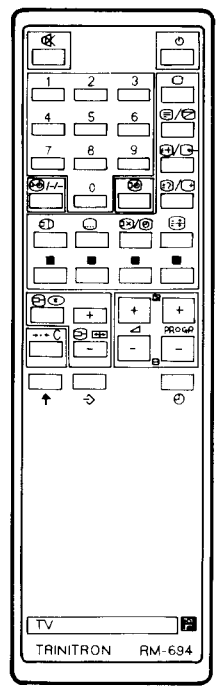
Important: In order to ensure presetting, you have to keep the ⬆ (SHIFT) button pressed, while pressing the other buttons (that is ⬰ , |⇹| +/−, C) during presetting.

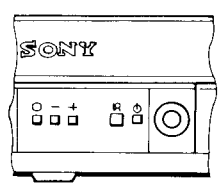


Automatic Presetting of Channels

Action		Result
1	Turn on the TV using the power switch ⏻ on the set.	
2	Press both the ⬆ (SHIFT) button and the ⬰ PRESET button simultaneously.	You are now in the preset mode. The programme number flashes.
3	Press either the number buttons or PROGR +/− to select the programme number on which you want to preset the channel. **Note:** In case of two digit numbers, first press −/−−, then the two number.	The selected programme number will be indicated.
4	Press both the ⬆ SHIFT button and the |⇹| + or − button repeatedly, until the desired channel is tuned in.	The scale with the frequency band changes.
5	Repeat steps 3 and 4 for all other channels.	
6	Press both the ⬆ SHIFT and the ⬰ PRESET button simultaneously to store the channels.	All channels are now stored. The programme number stops flashing.







How to skip programme positions

Since you have 60 programme positions at your disposal, you may want to skip vacant programme positions, that is that they are skipped when you press the PROGR +/− buttons.

Action		Result
1	Press both the ⬆ SHIFT button and the ⬰ PRESET button simultaneously.	You are now in the preset mode. The programme position flashes.
2	Use either PROGR + or − to select the programme position you want to skip.	The selected programme position appears.
3	Press both the ⬆ SHIFT button and the button C simultaneously.	
4	Press both the ⬆ SHIFT button and the ⬰ PRESET button simultaneously.	The programme position is now skipped. You are back in TV mode.

How to fine tune a channel manually

If the reception of a stored channel is not satisfactory, you can fine tune the channel manually.

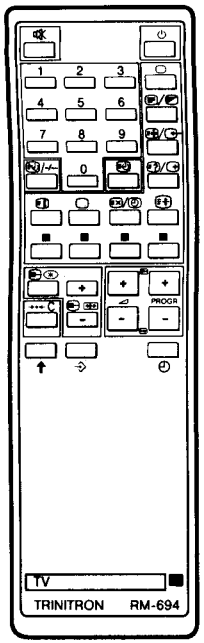
Action	Result
Press both the ⬆ SHIFT button and the |⇹| + or − button simultaneously until the reception is good.	The channel is fine tuned.

Note: By pressing the respective programme number the automatic fine tuning will be restored.

1-2. TV OPERATION

Your TV set is supposed to be operated with the Remote Commander.

For the basic functions, however, it is also possible to use the buttons on the set.



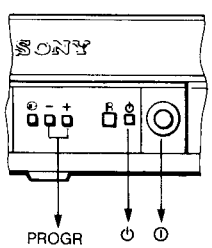
How to switch the TV on and off

Action	Result
1 Press the power switch ⏻ on the set.	The TV will turn on. **Note :** If the red indicator is on, the set is in standby mode.
2 Press a number button on the Remote Commander, to select a programme.	The selected programme appears.
In order to switch the set off temporarily : Press button ⏾ on the Remote Commander.	The set is in standby mode. Press button ⏾ or any number button to switch it on again.
In order to switch the set off temporarily : Press the power switch ⏻ on the set.	The set is switched off.

Sleep Timer

Press the ⏲ button repeatedly until the required time period is displayed on the screen (30, 60, 90 minutes or 0 for cancelling the request).

In this way you can select the time period after which the set switches itself automatically into standby-mode.



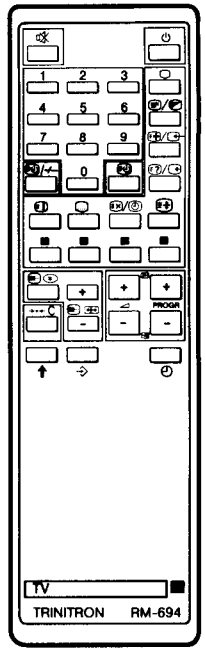
How to select programmes

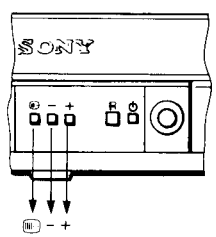
Before selecting programmes make sure that you have preset channels.

Action	Result
1 Switch the TV on.	
2 Press PROGR +/− or the respective number button on the Remote Commander. In case of two digit numbers first press the button −/−− and then the two respective number buttons.	The selected programme is displayed.

On the set :

Press the − button for lower programme positions and the + button for higher ones.





How to adjust the volume

Action	Result
Press + or −.	The symbol and the bar for the volume are displayed on the screem. The volume is adjusted.

On the set

Press, until the symbol is displayed on the screen, then adjust the volume by pressing the + or − buttons.

Muting of the sound :

Action	Result
Press button .	The sound is switched off. Press the button again to restore the sound.

How to adjust the picture

Action	Result
1 Press button repeatedly, until the desired item is displayed (contrast, colour intensity, brightness).	The symbol and the respective bar display are displayed.
2 Press button + or −.	The selected picture item is adjusted.

On the set :

Press button repeatedly in order to select the desired item, then adjust with the + or − button.

To return to factory-set levels

Press the button → • ←.

Other functions

On-screen display

Press the button to display the programme number on the screen and press the button a second time to make it disappear.

Selecting the signal of a connected device.

Press the button to receive the signal of the device (e.g. a VTR) connected at the V A connectors (front of the set), the S-Video input or the 21-pin connetor (rear of the set). Press the button to return to the TV mode.

On the set :

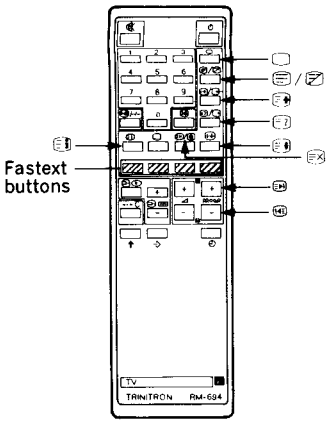
Press button so that the symbols , , and will be displayed. Press the + button to select the video input mode. Press and + buttons a second time to return to the TV mode.

Time function

Press to display the time. Press button again to cancel the request (only if teletext is broadcast).

1-3. HOW TO VIEW TELETEXT

Viewing Teletext



To view the teletext service, use the Remote Commander. The buttons for teletext operation are indicated in green.

Select the TV channel for the desired teletext service. If the signal is weak, teletext errors can occur.

To receive the teletext service of a different TV channel

1. Press to return to the TV mode.
2. Select the desired TV channel.
3. Press ▤/▨ (TEXT/MIX).

Press ▢/▨ (TEXT/MIX) to display the teletext service.

Key in three digits of the desired page using the number buttons. If an error is made, complete the three-digit sequence by keying in any digit. Then, re-enter the correct page number.

The requested teletext page is displayed.

To return to TV mode press ▢ on the Remote Commander.

Teletext Functions

To request Index Page

Press (INDEX). If the necessary signal is not being broadcast, page 100 is displayed.

To access the next or preceding page

Press
(PAGE+) or
(PAGE−)

To superimpose the teletext display on the picture (MIX)

Press ▢/▨ twice from the TV mode. Press again to return to the TEXT display.

To prevent the Teletext page from being updated/changed

Press (HOLD). The HOLD symbol appears on the screen. To resume normal teletext reception (press ▤/▨ (TEXT/MIX)).

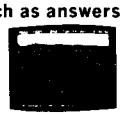
To enlarge the Teletext display

Press once to enlarge the upper half of the display; (press again to enlarge the lower half of the display. And press again to return to the normal display).

To reveal concealed information such as answers to a quiz

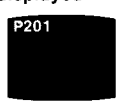
Press (REVEAL).

Press again to conceal the answers.



To watch the TV programme while waiting for a requested page to be displayed

1. Request the new page.
2. Press to watch the TV programme. The requested page number and other data appear at the top of the screen. When the requested page has been captured, the page number is displayed in the top left hand corner of the screen. To view this page, press ▤/▨.



Fastext Operation

FASTEXT teletext enables you to access pages quickly and conveniently with one key operation. When a FASTEXT page is broadcast a colour coded menu will appear at the bottom of the screen. Each coloured prompt relates to the coloured keys on the Remote Commander. Pressing one of these will select the page described by the prompt.

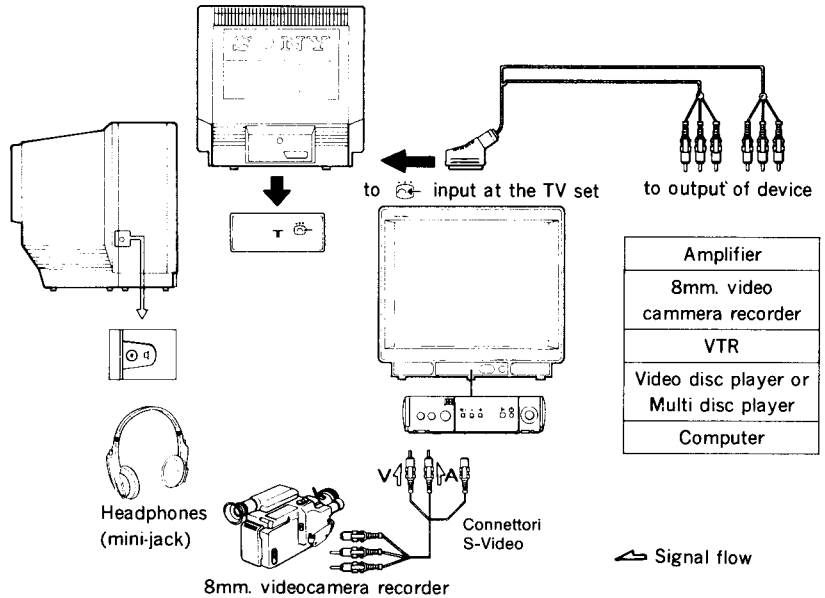
Selection may also be made by entering the three digit page number in the normal way.

Correct FASTEXT operation relies on the necessary signals being transmitted by the Broadcastig Authorities. It is possible that some Broadcasters will not support this transmission.

If FASTEXT is not transmitted, the decoder will operate as outlined above.

1-4. OPTIONAL CONNECTIONS/OPERATION

How to connect additional Audio/Video equipment



How to view the Video input signal

Press button repeatedly in order to select the desired input mode (for Audio/video signals from 21-pin EURO connector or from the video/audio connectors V A on the front). Press button ▢ to return to TV mode.

On the set:

Press button until the symbols ▢, , appear on the screen, then press the + or − buttons to select the desired video input mode. Press again to return to TV-mode.

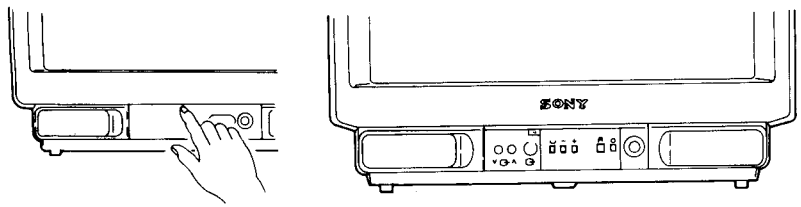
Notes

- When you have Audio/video equipment connected to both the A/V connectors and the 21-pin terminal, make sure that not both are swiched on at the same time, otherwise the picture could be incomplete.
- In case of sound or picture distortions move the VTR away from the TV set.

1-5. PARTS IDENTIFICATION

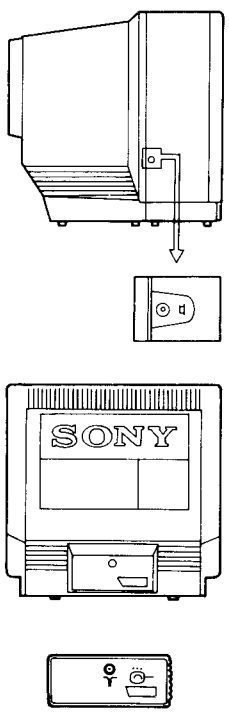
In the following you will find a short description of the parts and their function on the set or on the remote commander using the respective symbols. For more details refer to the page number given in the index.

TV-Set Front

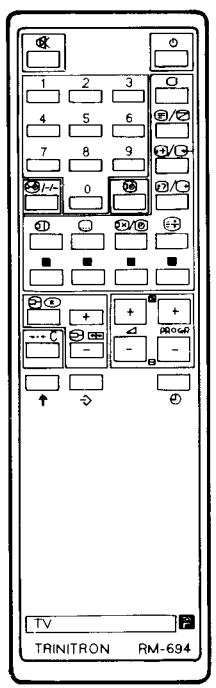


Press ▲ to open the panel

TV-Set Rear



Remote Commander



TV set

Symbol	Function
◁	Headphones jack (mini-jack)
V ⊖	Video input jack
A ⊖	Audio input jack
◁) +/–	Buttons for sound and picture adjustment
+/–	Programme scanning buttons
▣	Remote control detector
⏻	Standby indicator
⏼	Power switch
⊓	Aerial socket (rear of the set)
⊶	21-pin connector (rear of the set)

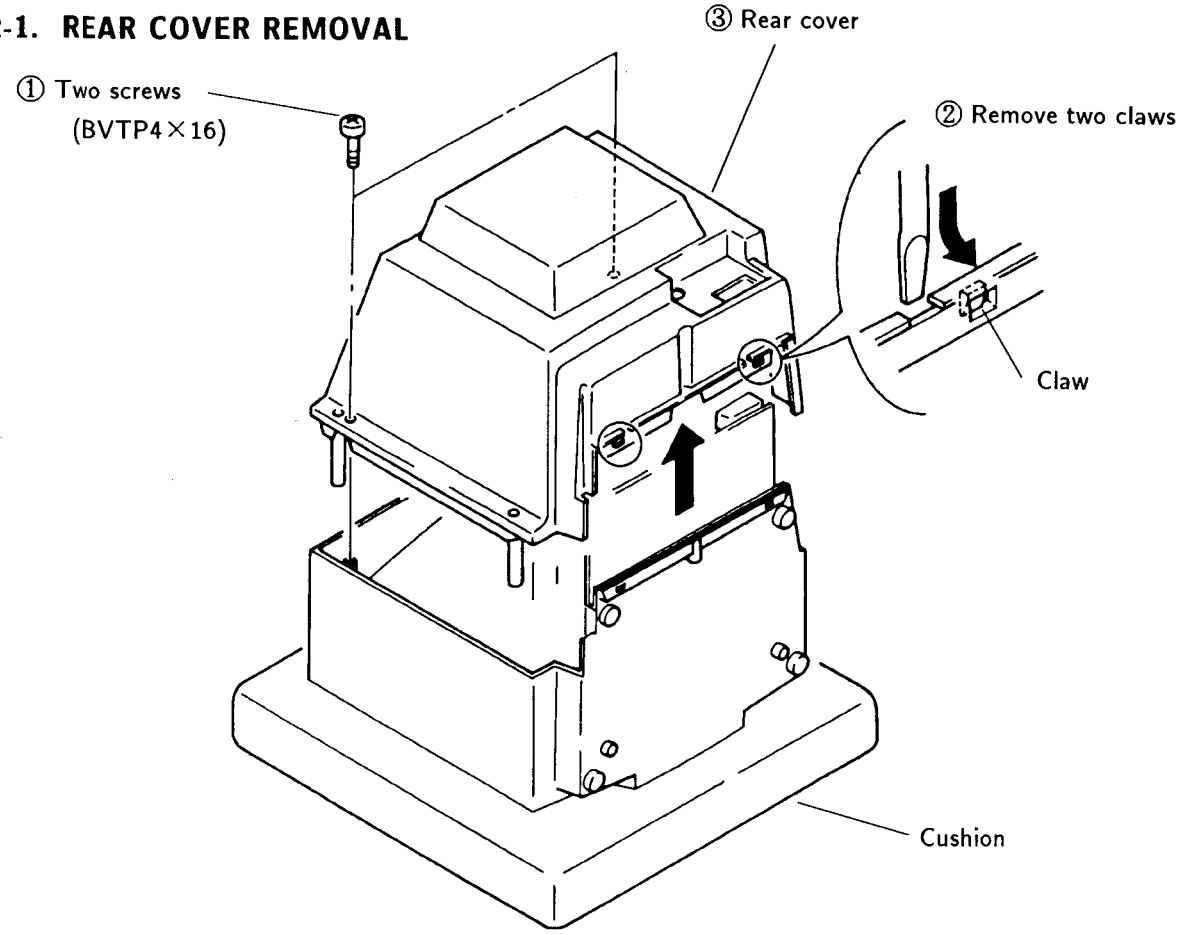
Remote Commander

Symbol	Function
🔇	Mute button
1-9, 0, -/--	Number buttons – in case of two digit numbers first press button –/– – and then two number buttons
⊛	Button has no function
▭	Select button for picture adjustment item
+/–	Buttons for adjusting picture items
▲ and ◀▶ +/–	Buttons for manual fine tuning of a channel / channel search
↩	Button for resetting the picture adjustment items to standard
▲ and C	Buttons for clearing a programme position (in preset mode)
▲	Functions only in combination with other buttons
◀ and ▲	Preset mode on / off buttons
⏻	Button for switching the TV set into standby mode
▢	Used to return to TV-mode from standby and video input modes
▢	Button for selecting the video input modes
▢	On/off button for on screen display
▢	Time feature
PROGR +/–	Programme scanning buttons
◿ +/–	Buttons for adjusting the volume
ⓘ	Button for activating the sleep timer
▢ ▢/▢ ▢ ▢ ▢ ▢	Teletext buttons
▢ ▢ ▢ ▢	FASTEXT buttons

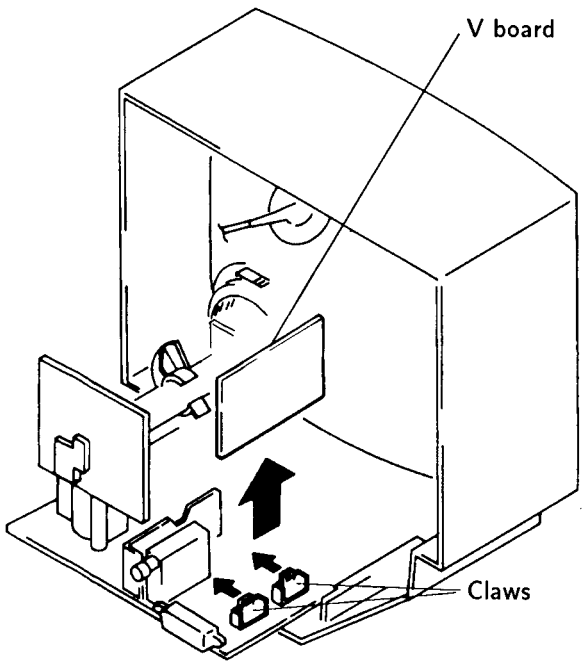
Note Buttons not referred to in this index have no function.
The green buttons are for Teletext.

SECTION 2
DISASSEMBLY

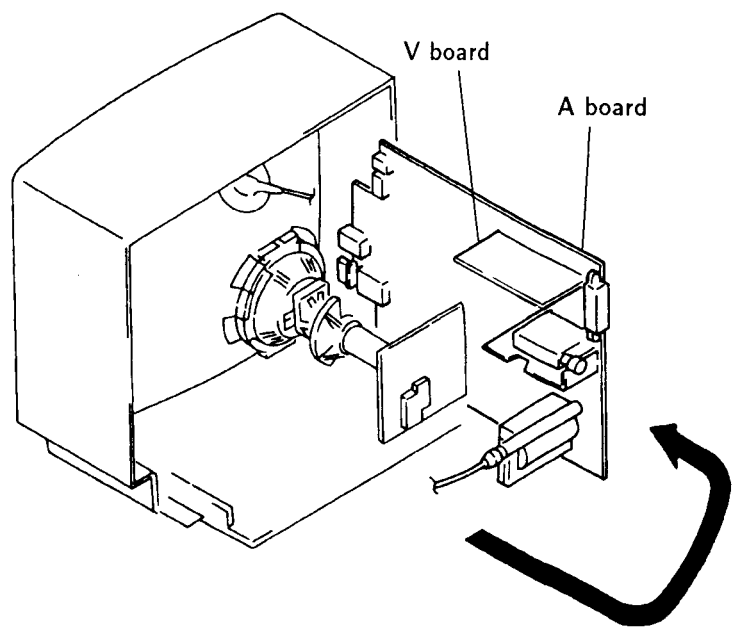
2-1. REAR COVER REMOVAL



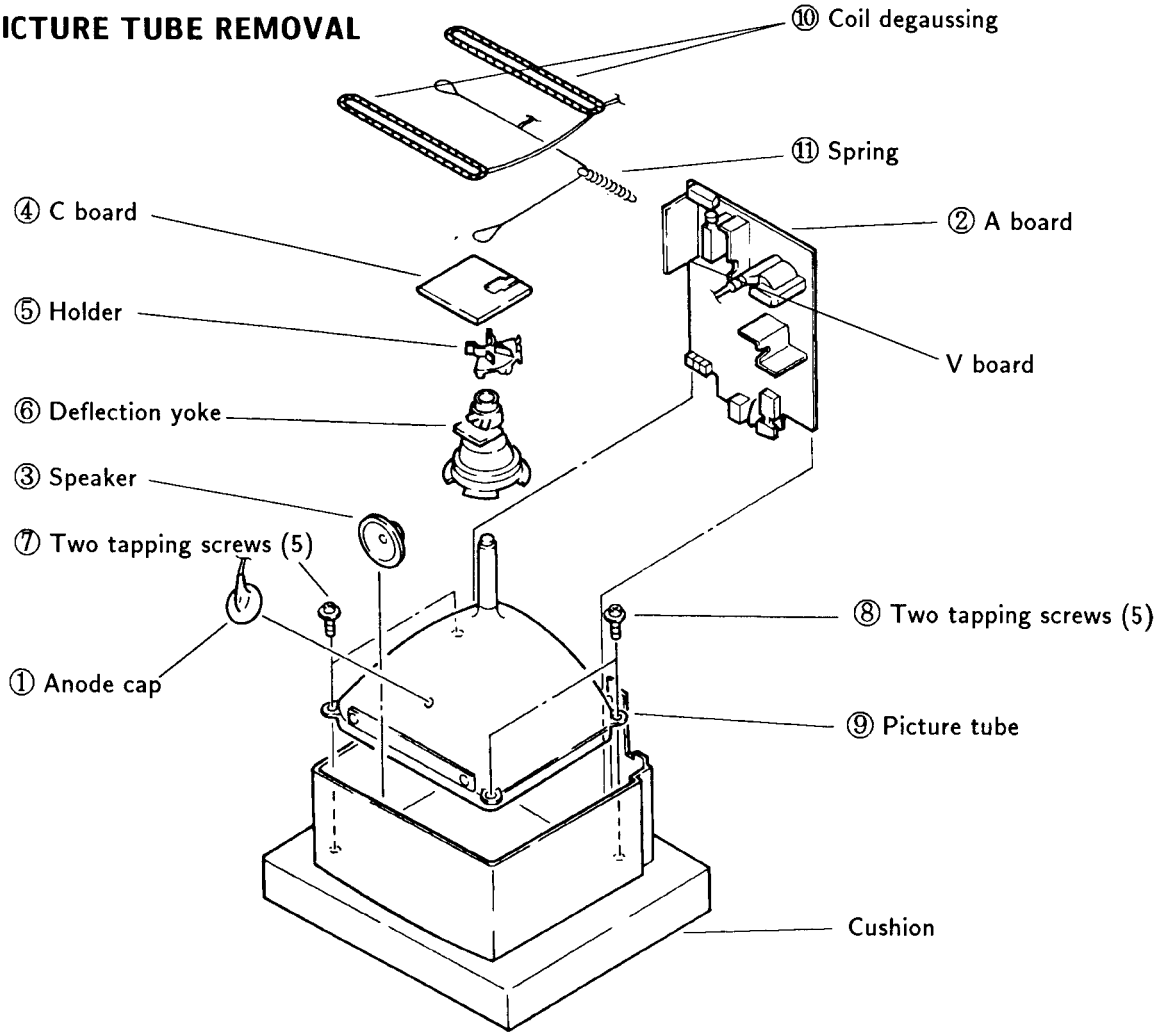
2-2. V BOARD REMOVAL



2-3. SERVICE POSITION



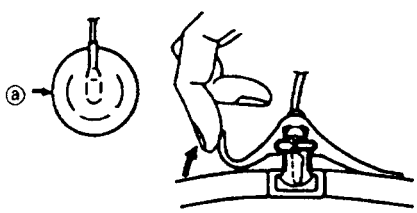
2-4. PICTURE TUBE REMOVAL



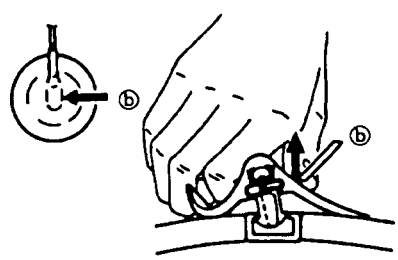
• REMOVAL OF ANODE-CAP

NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT chield or carbon painted on the CRT, after removing the anode.

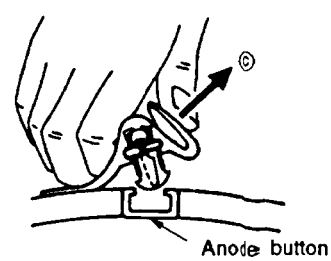
• REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.



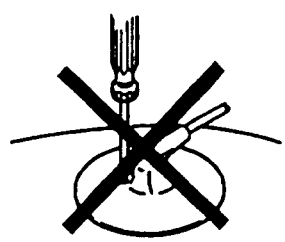
③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

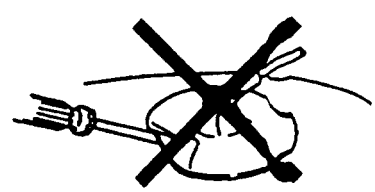
• HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with sharp shaped material!

② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.

③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3
SET-UP ADJUSTMENTS

● The following adjustments should be made when a complete realignment is required or a new picture tube is installed.

● These adjustments should be performed with rated power supply voltage unless otherwise noted.

The controls and switch below should be set as follows unless otherwise noted :

◑ CONTRASTcontrol ..... 80%(or Normal by commander)

☼ BRIGHTNESS control 50%

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. Focus
4. Screen (G 2) and White Balance

Note: Test Equipment Required.

1. Color bar/Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter
5. Oscilloscope

Preparation:

● Set the side of the unit with the PICTUE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.

● Turn the power switch for the unit ON and erase the magnetic force using a degausser..

3-1. BEAM LANDING

Demagnetize with a degausser

1. Input a raster signal with the pattern generator.
   CONTRAST
   BRIGHTNESS } normal
2. Turn the raster signal of the pattern generator to red.
3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides evenly. (Fig.3-1 - 3-3)
4. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig.3-1)
5. Switch over the raster signal to blue and blue and confirm the condition.
6. When the position of the deflection yoke is determined,tighten it with a deflection yoke mounting screw.
7. When landing at the corner is not right, adjust by using the disk magnets. (Fig.3-4)

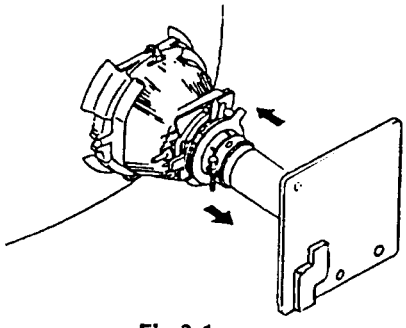


Fig.3-1

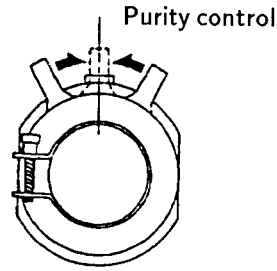


Fig.3-2

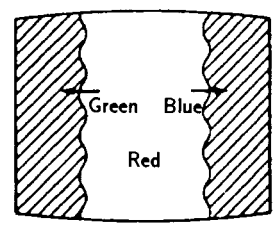


Fig.3-3

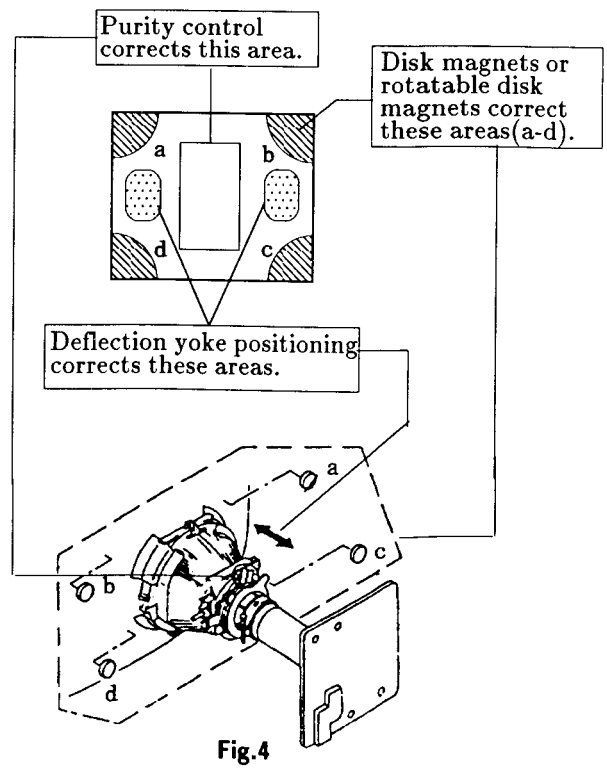


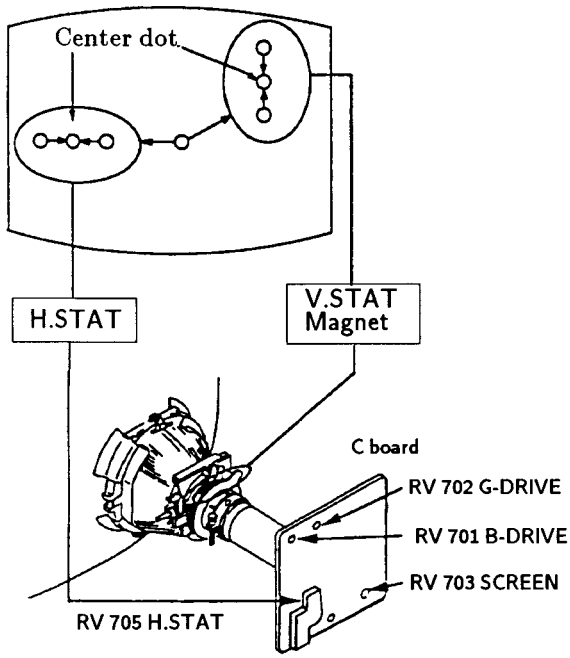
Fig.4

3-2. CONVERGENCE

Preparation:

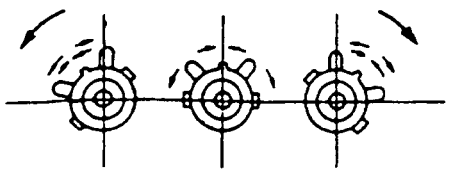
- Before starting, perform FOCUS, H.SIZE, and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

(1) Horizontal and Vertical Static Convergence

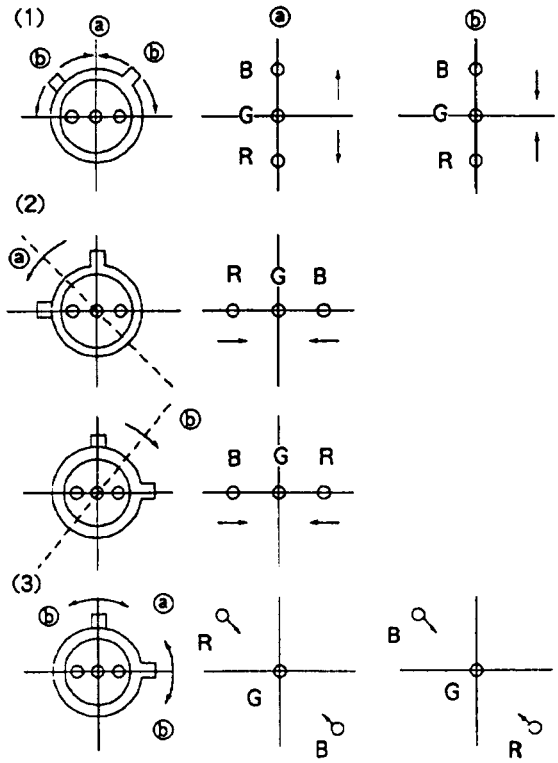


1. Adjust H.STAT VR to converge red, green and blue dots the in center of the screen.(Horizontal movement)
2. Adjust V. STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
3. If the red, green and blue dots do not converge on the center of screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below. (In this case, H.STAT VR and V.STAT magnet effect each other.)

- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4.When the V.STAT magnet is moved in the direction of arrow ⓐ and ⓑ, red, green and blue dots move as shown below.

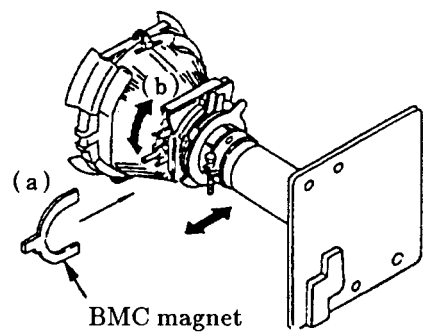


If the red and blue dot do not converge with green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H.static convergence.

Rotate BMC magnet (b) to correct insufficient V.static convergence.

In either case, repeat Beam Landing Adjustment.

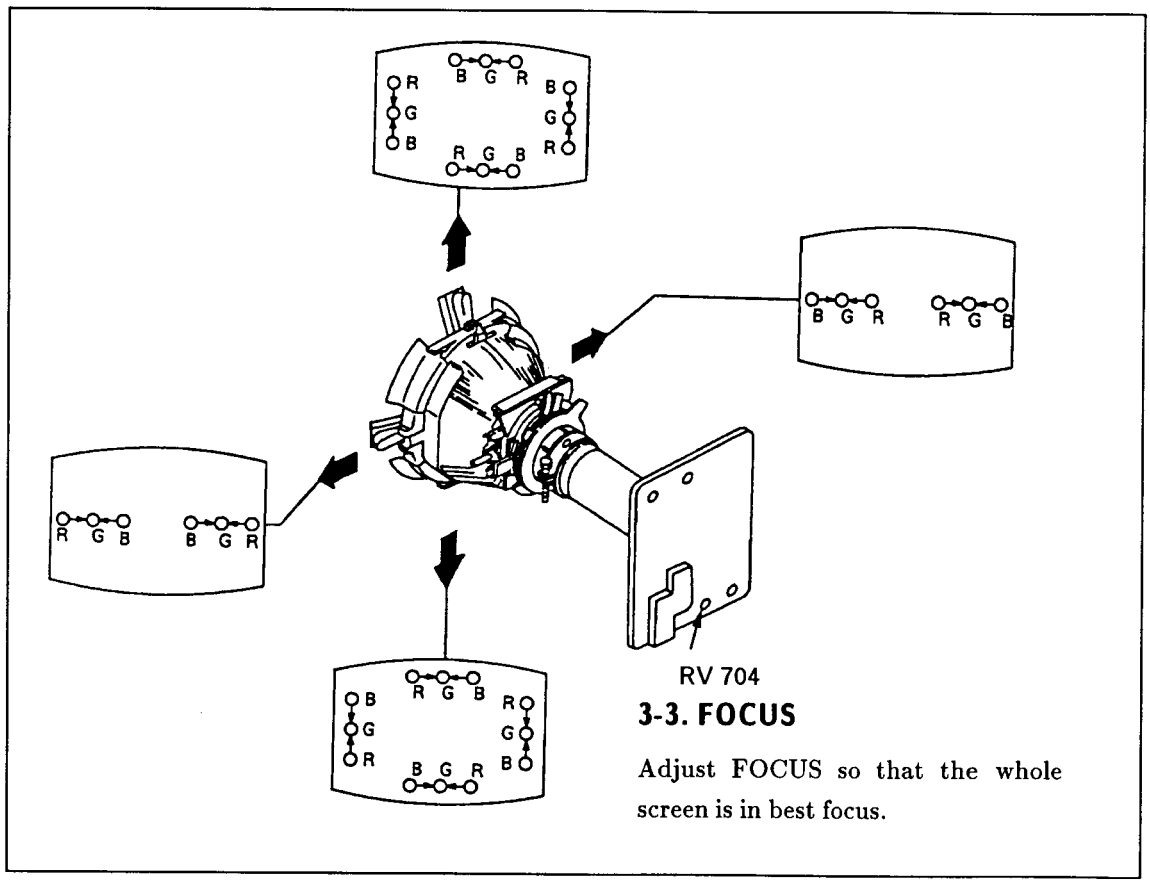


(2)Dynamic Convergence Adjustment

Preparation:

● Before starting perform Horizontal and Vertical static convergence Adjustment.

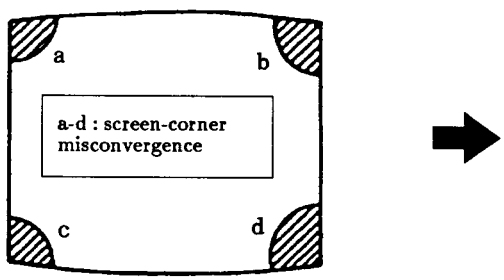
1. Slightly loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.

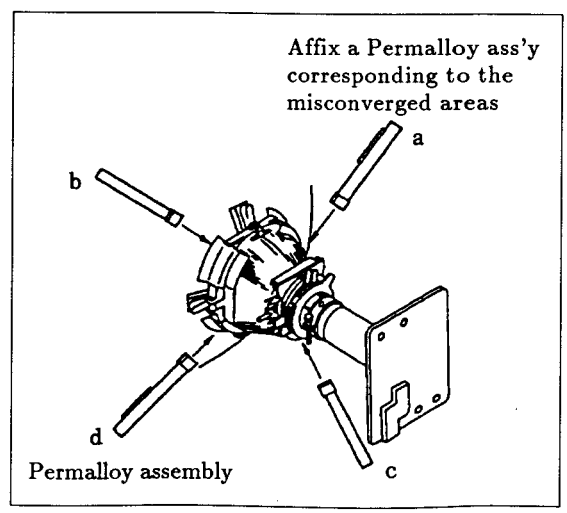


3-3. FOCUS

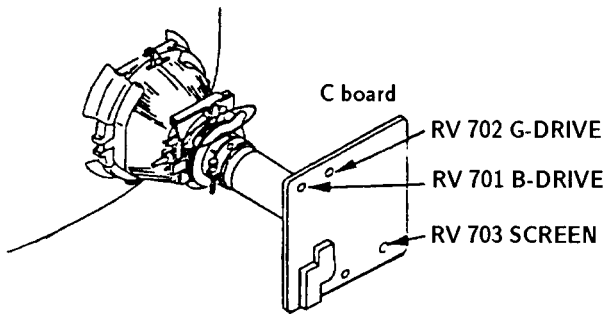
Adjust FOCUS so that the whole screen is in best focus.

(3) Screen-corner Convergence





3-4. SCREEN (G 2) and WHITE BALANCE



Screen (G 2) Setting

1. Input dot signal from the pattern generator.
2. Set the picture BRIGHTNESS control to minimum level.
3. Apply 140 V DC to the cathodes of R,G and B from an external power power source.
4. While watching the picture, adjust the G 2 volume (RV703) immediately before fly-back line disappears.

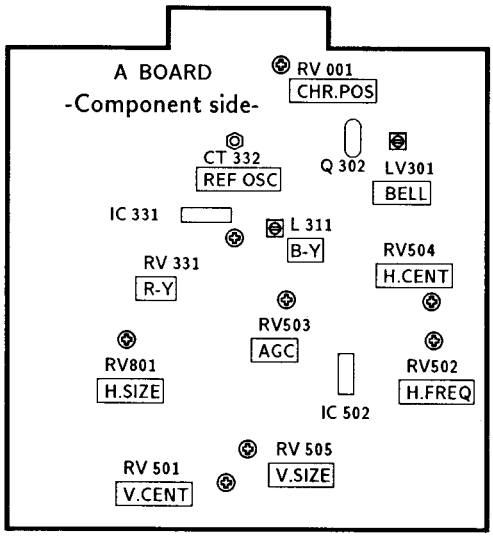
White Balance Adjustment

1. Input all-white signal from the pattern generator.
2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
3. Adjust the following using RV 701 (B DRIVE) and RV 702 (G DRIVE)

In the following adjustments, the CONTRAST, COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

SECTION 4
CIRCUIT ADJUSTMENTS

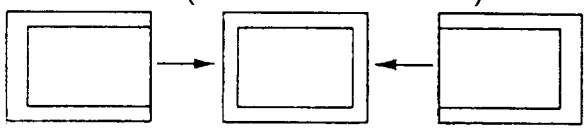
4-1. A BORAD ADJUSTMENTS



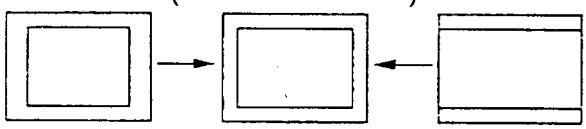
TU AGC Adjustment (RV 503)

1. Tune in air signal.
2. Adjust AGC VR (RV 503) so that snow-noise and cross-modulation just disappear from the picture.

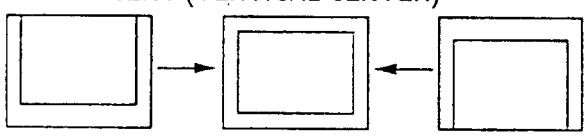
RV 504 H.CENT (HORIZONTAL CENTER)



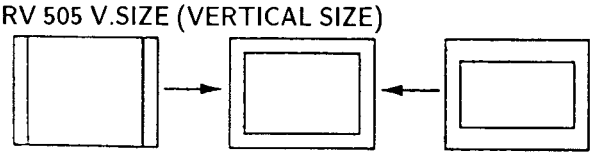
RV 801 H.SIZE (HORIZONTAL SIZE)



RV 501 V.CENT (VERTICAL CENTER)

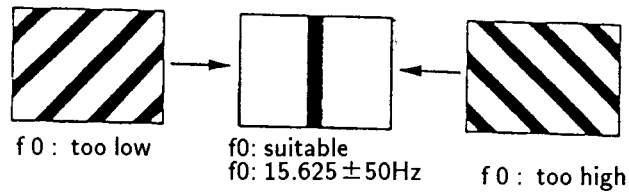


RV 505 V.SIZE (VERTICAL SIZE)



H.FREQ Adjustment (RV 502)

1. Input a PAL COLOR BAR signal, then connect an electrolytic capacitor (100 μ/16 V) between pin㉘ and GND of IC 502.
2. Adjust RV 502 (H.FREQ) to stop scrolling of the picture in the horizontal direction.
3. After adjustment, remove the electrolytic capacitor.

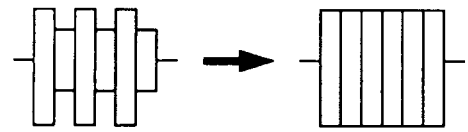


REF OSC 8.8 MHz Adjustment (CT 332)

1. Input a PAL COLOR BAR pattern.
2. Short circuit between pin⑰ of IC 331 and ground.
3. Adjust CT 332 to obtain color synchronization.
4. Remove the jumper wire from IC 331.

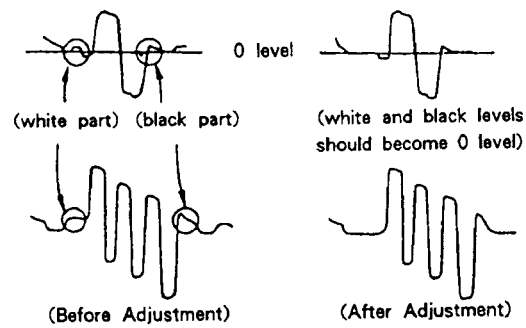
BELL FILTER Adjustment (LV-301)

1. Input a SECAM COLOR BAR pattern.
2. Connect an oscilloscope to rhe Q 302 emitter.
3. Adhust LV 301 so that waveform becomes flat.



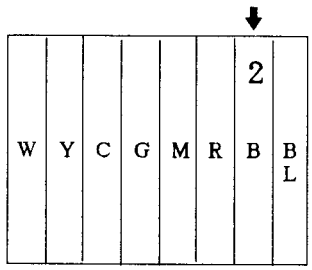
SECAM DISCRI Adjustment (RV 331 R-Y L 331 B-Y)

1. Input a SECAM COLOR BAR pattern.
2. Connect an oscilloscope to pin ① of IC 301.
3. Adjust RV 331(R-Y) so that white and black parts of the waveform of pin ① becomes 0 lecel.
4. Connect an oscilloscope to pin ③ of IC 301.
5. Adjust L 331(B-Y) so that white and black parts of the waveform of pin ③ becomes 0 level.

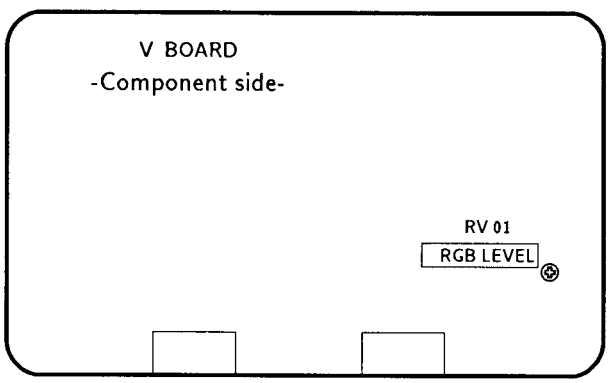


CHARACTER POSITION Adjustment (RV 001)

1. Input PAL COLOR BAR pattern.
2. Adjust RV 001 to position the charcter display at the point indicated by the arrow below.



4-2. V BOARD ADJUSTMENT

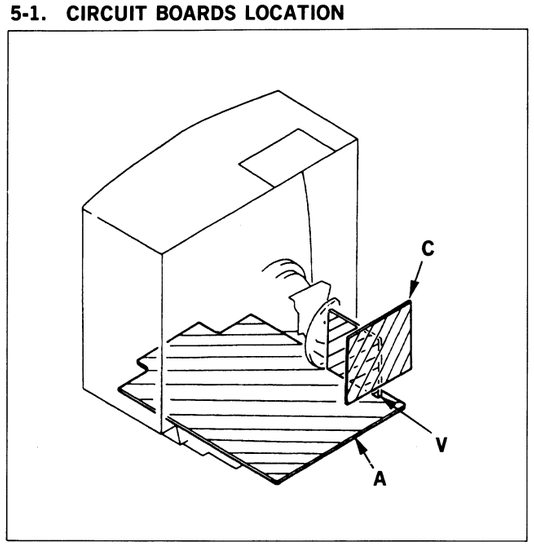


RGB LEVEL Adjustment (RV 01)

1. Set PICTURE to maximum.
2. Adjust RV01 till the RGB output becomes maximum.

SECTION 5
DIAGRAMS

5-1. CIRCUIT BOARDS LOCATION



Reference information

RESISTOR	:	RN	METAL FILM
	:	RC	SOLID
	:	FPRD	NONFLAMMABLE CARBON
	:	FUSE	NONFLAMMABLE FUSIBLE
	:	RS	NONFLAMMABLE WIREWOUNO
	:	RB	NONFLAMMABLE CEMENT
	:	*	ADJUSTMENT RESISTOR
COIL	:	LF-8L	MICRO INDUCTOR
CAPACITOR	:	TA	TANTALUM
	:	PS	STYROL
	:	PP	POLYPROPYLENE
	:	PT	MYLAR
	:	MPS	METALIZED POLYESTER
	:	MPP	METALIZED POLYPROPYLENE
	:	ALB	BIPOLAR
	:	ALT	HIGH TEMPERATUNE
	:	ALR	HIGH RIPPLE

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note:

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power is as follows.

Pitch	: 5mm
Rating electrical power	: 1/4W

- Chip resistor is in 1/10W.
- All resistors are in ohms. kΩ: 1000Ω, MΩ: 1000kΩ.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation and adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltage are in V.
- Readings are taken with a 10MΩ digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- ——— : B+ bus.
- : Signal path. (RF)

[SYSTEM CONTROL, A/V OUT, H/V OUT, MEMORY, CHROMA] **A** **A**

5-2. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

—A Board—

IC	
IC001	C-9
IC002	D-9
IC003	D-10
IC004	E-9
IC005	B-8
IC102	B-5
IC201	F-8
IC301	D-5
IC302	B-7
IC331	C-6
IC501	D-2
IC502	C-3
IC601	G-5
IC801	E-3
IC802	E-4

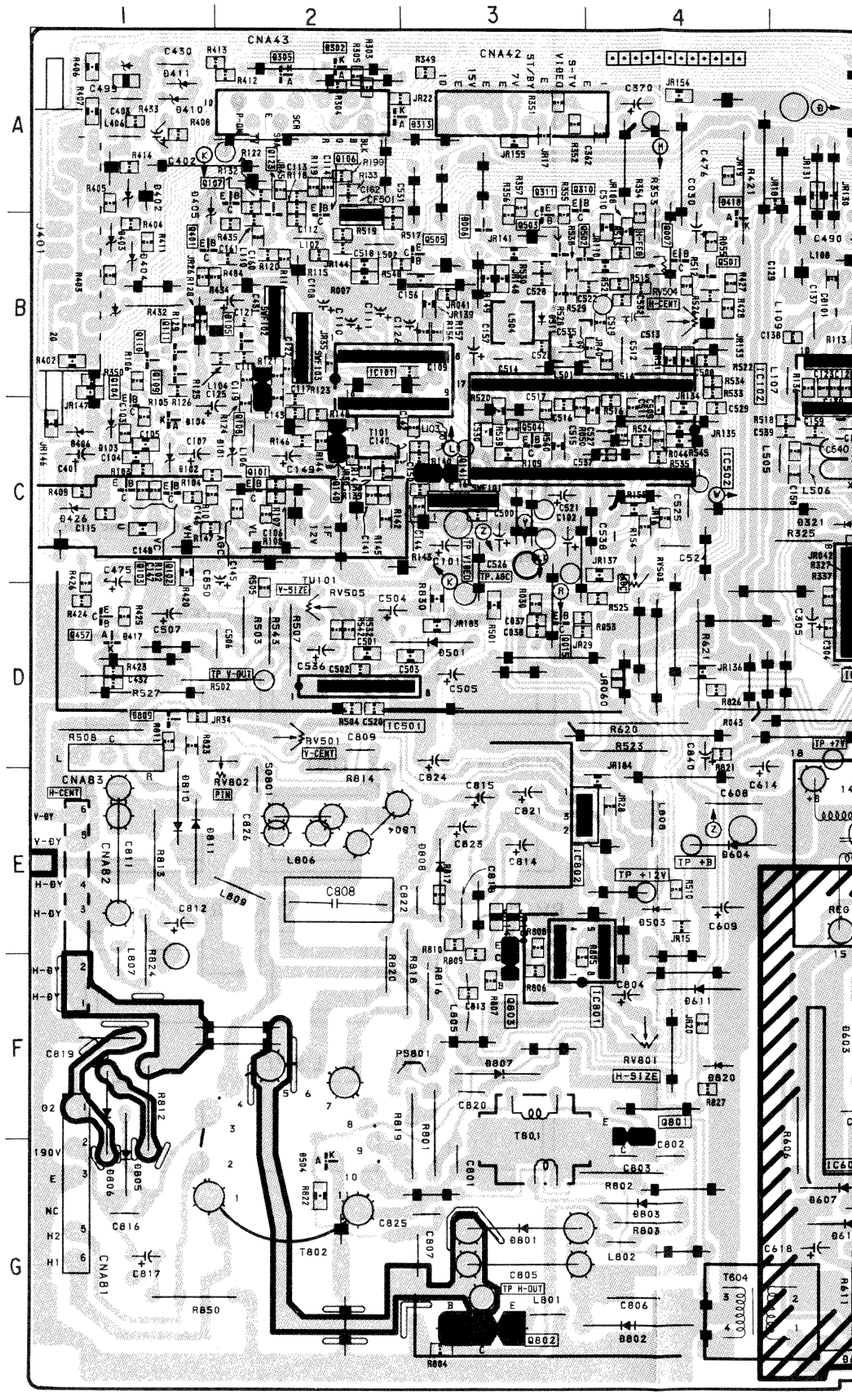
TRANSISTOR	
Q001	D-8
Q003	D-9
Q004	D-10
Q005	B-8
Q006	C-8
Q007	B-4
Q015	D-3
Q016	D-10
Q017	E-9
Q019	D-10
Q020	D-8
Q101	C-2
Q102	C-1
Q103	C-1
Q104	B-1
Q106	A-2
Q107	A-2
Q112	A-7
Q114	B-5
Q115	A-6
Q141	C-3
Q302	C-7
Q303	B-7
Q304	B-6
Q305	B-6
Q307	B-6
Q310	A-3
Q311	A-3
Q401	B-1
Q457	D-1
Q504	C-3
Q505	B-3
Q601	G-5
Q801	F-4
Q802	G-3
Q803	E-3

DIODE	
D002	E-10
D004	C-9
D007	B-8
D008	D-10
D009	B-8
D020	B-8
D101	C-2
D102	C-1
D103	C-1
D104	C-1
D110	C-5
D301	C-6
D302	A-2
D303	B-6
D305	A-2
D306	B-6
D313	A-3
D321	C-5
D324	A-7
D333	D-7
D402	A-1
D403	B-1
D404	B-1
D405	A-1
D406	C-1
D410	A-1
D411	A-1
D417	D-1
D418	A-4
D426	C-1
D501	D-3
D503	E-4
D504	G-2
D519	C-8
D601	F-7
D602	F-6
D603	F-5
D604	E-4
D605	E-6
D606	D-5
D607	G-5
D608	G-5
D609	G-5
D610	G-5
D611	F-4
D801	G-3
D802	G-4
D803	G-4
D805	G-1
D806	F-1
D807	F-3
D808	E-3
D810	E-1
D811	E-1
D820	F-4

VARIABLE RESISTOR	
RV001	D-9
RV331	C-6
RV501	D-2
RV502	B-4
RV503	C-4
RV504	B-4
RV505	D-2
RV801	F-4

TRIMMER	
CT332	C-7

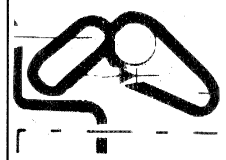
—A Board—



ON
BLE
WOUNO
NT
R

R
YLENE

5-2. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS



NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

—A Board—

IC

IC001	C-9
IC002	D-9
IC003	D-10
IC004	E-9
IC005	B-8
IC102	B-5
IC201	F-8
IC301	D-5
IC302	B-7
IC331	C-6
IC501	D-2
IC502	C-3
IC601	G-5
IC801	E-3
IC802	E-4

TRANSISTOR

Q001	D-8
Q003	D-9
Q004	D-10
Q005	B-8
Q006	C-8
Q007	B-4
Q015	D-3
Q016	D-10
Q017	E-9
Q019	D-10
Q020	D-8
Q101	C-2
Q102	C-1
Q103	C-1
Q104	B-1
Q106	A-2
Q107	A-2
Q112	A-7
Q114	B-5
Q115	A-6
Q141	C-3
Q302	C-7
Q303	B-7
Q304	B-6
Q305	B-6
Q307	B-6
Q310	A-3
Q311	A-3
Q401	B-1
Q457	D-1
Q504	C-3
Q505	B-3
Q601	G-5
Q801	F-4
Q802	G-3
Q803	E-3

DIODE

D002	E-10
D004	C-9
D007	B-8
D008	D-10
D009	B-8
D020	B-8
D101	C-2
D102	C-1
D103	C-1
D104	C-1
D110	C-5
D301	C-6
D302	A-2
D303	B-6
D305	A-2
D306	B-6
D313	A-3
D321	C-5
D324	A-7
D333	D-7
D402	A-1
D403	B-1
D404	B-1
D405	A-1
D406	C-1
D410	A-1
D411	A-1
D417	D-1
D418	A-4
D426	C-1
D501	D-3
D503	E-4
D504	G-2
D519	C-8
D601	F-7
D602	F-6
D603	F-5
D604	E-4
D605	E-6
D606	D-5
D607	G-5
D608	G-5
D609	G-5
D610	G-5
D611	F-4
D801	G-3
D802	G-4
D803	G-4
D805	G-1
D806	F-1
D807	F-3
D808	E-3
D810	E-1
D811	E-1
D820	F-4

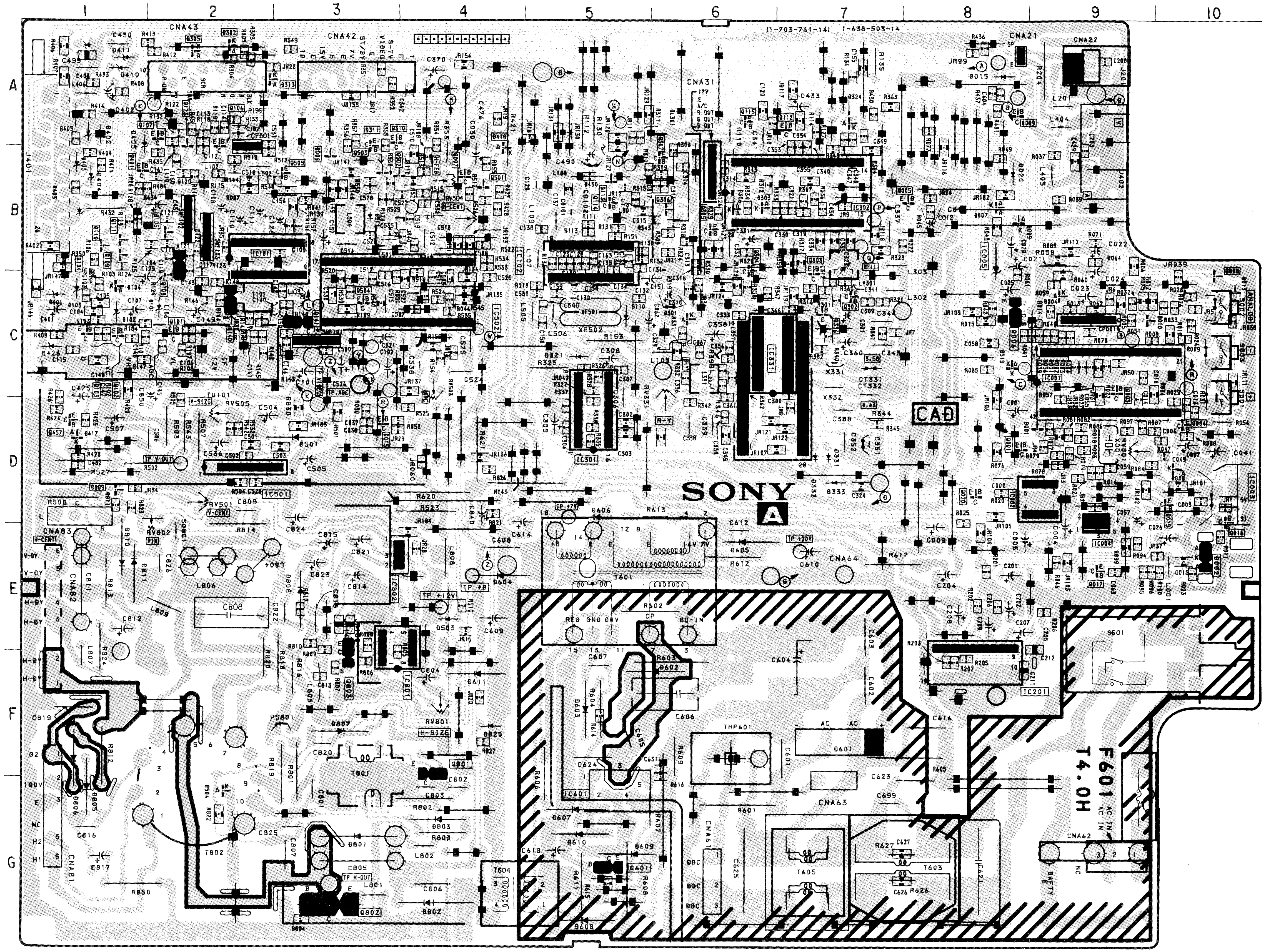
VARIABLE RESISTOR

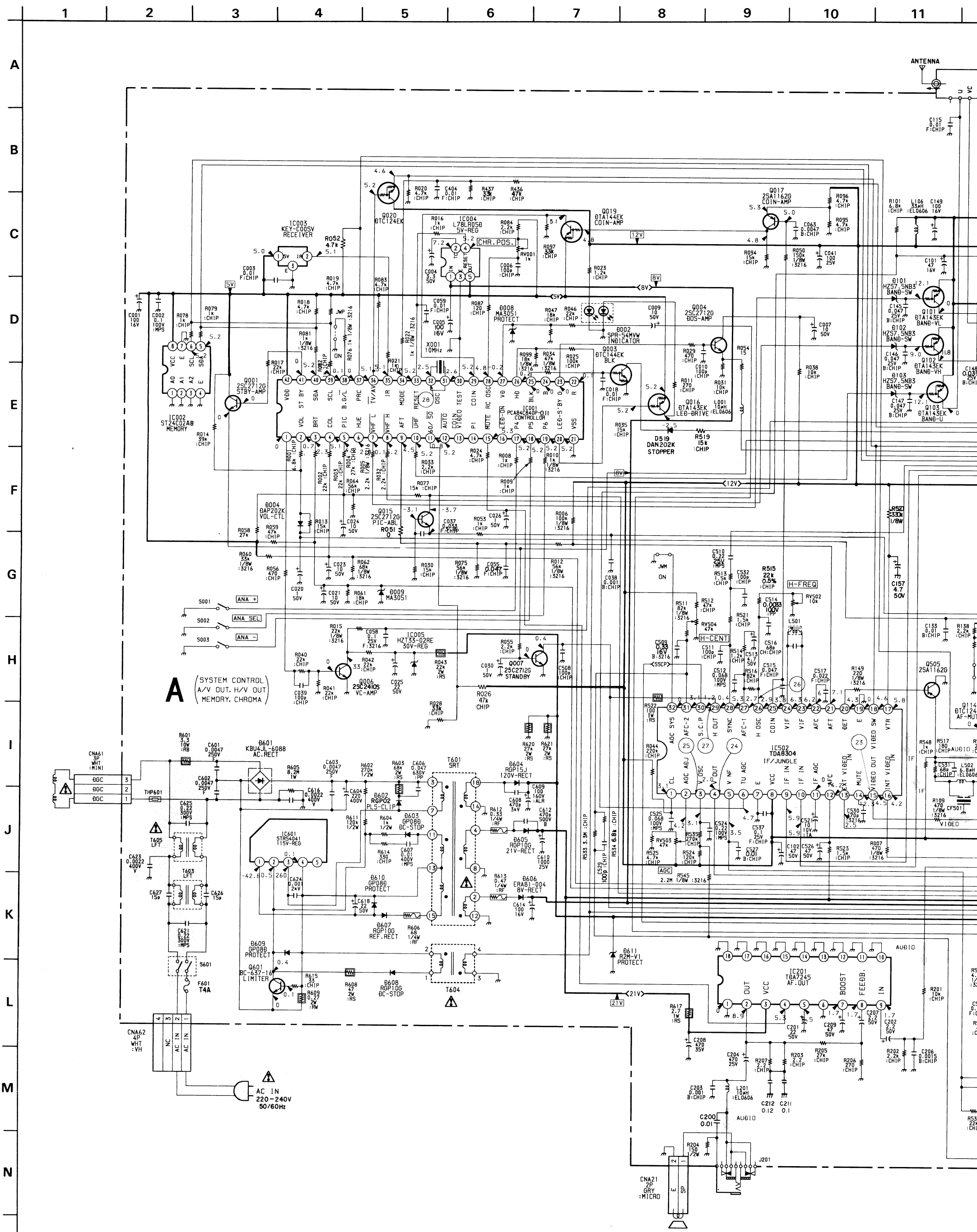
RV001	D-9
RV331	C-6
RV501	D-2
RV502	B-4
RV503	C-4
RV504	B-4
RV505	D-2
RV801	F-4

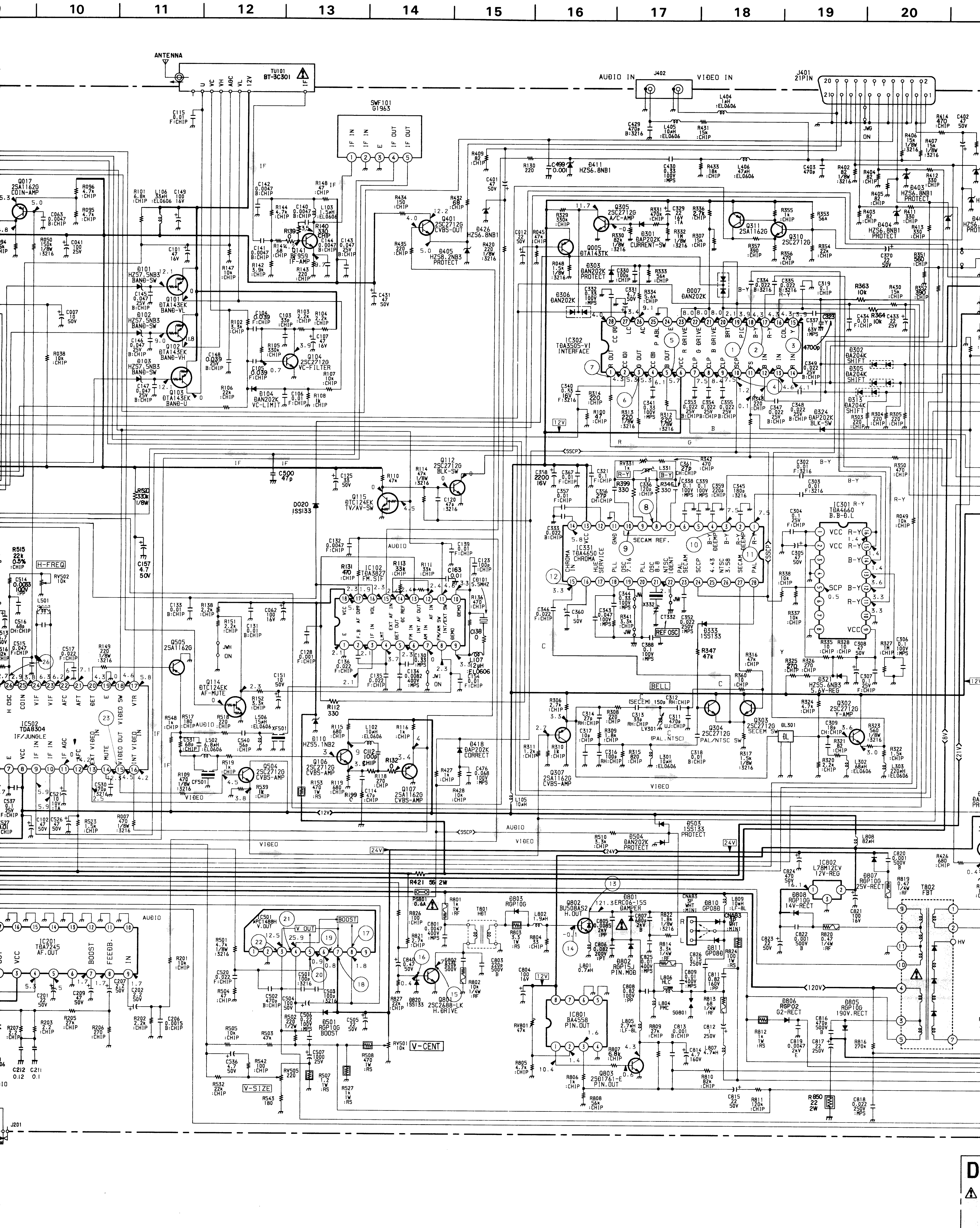
TRIMMER

CT332	C-7

— A Board —




ANTENNA
IC003 KEY-C00SV RECEIVER
IC004 L78LR050 5V-REG
CHR.POS.
Q019 ØTA144EK COIN-AMP
Q017 2SA1162G COIN-AMP
Q020 ØTC124EK
Q001 2SC2712G STBY-AMP
IC002 ST24C02AB MEMORY
IC001 PCA84C840P-011 CONTROLLER
Q016 ØTA143EK LED-DRIVE
D519 DAN202K STOPPER
R519 15k :CHIP
Ø004 ØAP202K VOL-CTL
Q015 2SC2712G PIC-ABL
Ø009 MA3051
S001 ANA +
S002 ANA SEL
S003 ANA -
A (SYSTEM CONTROL A/V OUT, H/V OUT MEMORY, CHROMA)
IC005 HZ133-02RE 30V-REG
Q006 2SC2410S VC-AMP
Q007 2SC2712G STANDBY
Ø008 MA3051 PROTECT
Ø002 SPR-54MVW INDICATOR
Q003 ØTC144EK BLK
Q004 2SC2712G ØOS-AMP
X001 10MHz
H-FREQ
H-CENT
SSCP
AGC
IC502 TDA8304 IF/JUNGLE
VIDEO
Q505 2SA1162G
Q101 ØTA143EK BANØ-VL
Q102 ØTA143EK BANØ-VH
Q103 ØTA143EK BANØ-U
Ø101 HZS7.5NB3 BANØ-SW
Ø102 HZS7.5NB3 BANØ-SW
Ø103 HZS7.5NB3 BANØ-SW
JWM ON
CNA61 3P WHT :MINI
Ø601 KBU4JL-6088 AC.RECT
THP601
T601 5RT
Ø602 RGP02 PLS-CLIP
Ø603 GP08D ØC-STOP
Ø604 RGP15J 120V-RECT
Ø605 RGP10G 21V-RECT
Ø606 ERA81-004 8V-RECT
Ø607 RGP10G REF.RECT
Ø608 RGP10G ØC-STOP
Ø609 GP08D PROTECT
Ø610 GP08D PROTECT
Ø611 R2M-V1 PROTECT
IC601 STR54041 115V-REG
T603 LFT
T604
T605 LFT
S601
F601 T4A
CNA62 4P WHT :VH
AC IN 220-240V 50/60Hz
IC201 TØA7245 AF.OUT
AUDIO
CNA21 2P GRY :MICRO
J201
0V
8V
12V
21V


10
11
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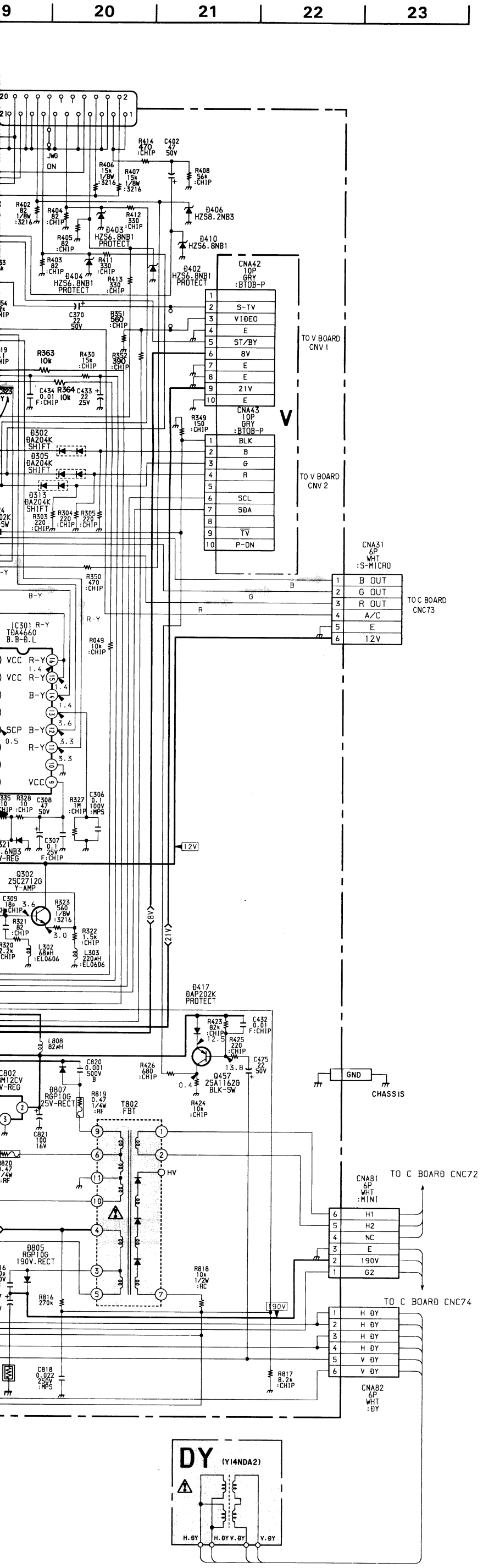
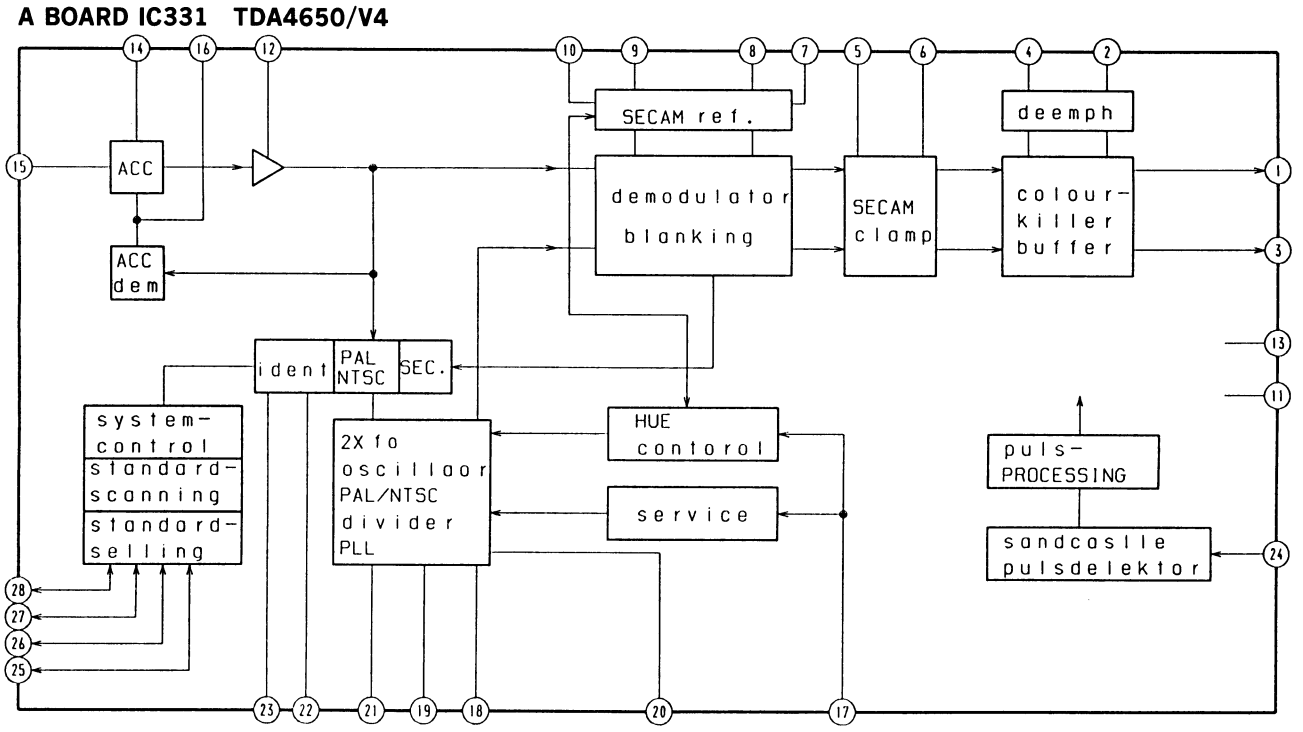
ANTENNA
TU101
BT-3C301
SWF101
G1963
AUDIO IN
J402
VIDEO IN
J401
21PIN
IC302
TDA3505-VI
INTERFACE
IC331
TDA4650
CHROMA
IC301
TDA4660
B.B-D.L
IC102
TDA3827
FM.SIF
IC502
TDA8304
IF/JUNGLE
IC201
TDA7245
AF.OUT
IC501
μPC1488H
V.OUT
IC801
BA4558
PIN.OUT
IC802
L78M12CV
12V-REG
T801
HDT
T802
FBT
Q802
BU508AS2
H.OUT
Q801
2SC2688-LK
H.DRIVE
H-FREQ
V-CENT
V-SIZE
BELL
REF OSC
J201



A BOARD IC331 TDA4650/V4



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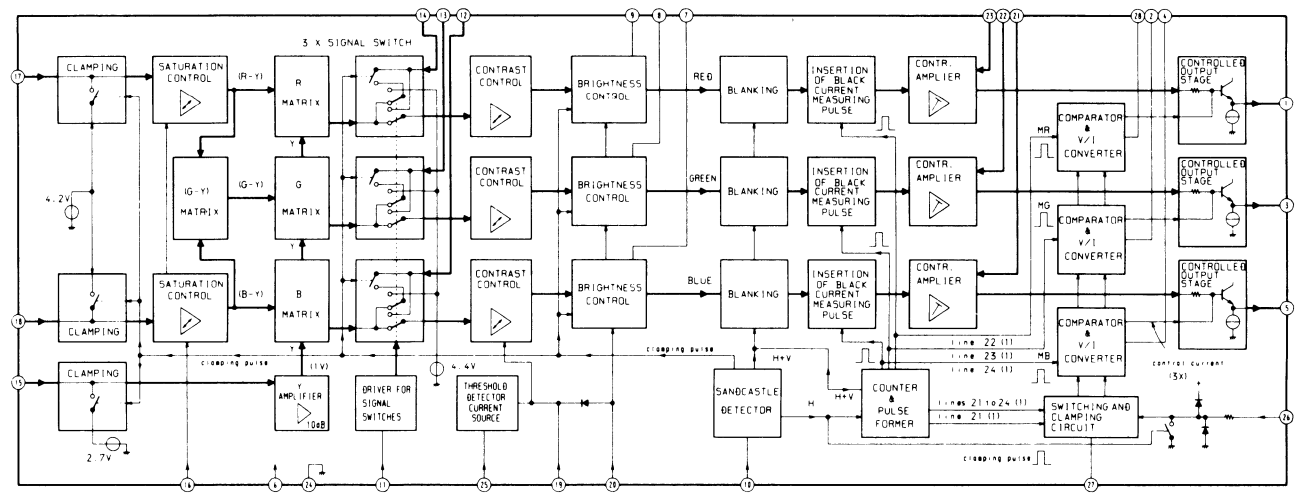
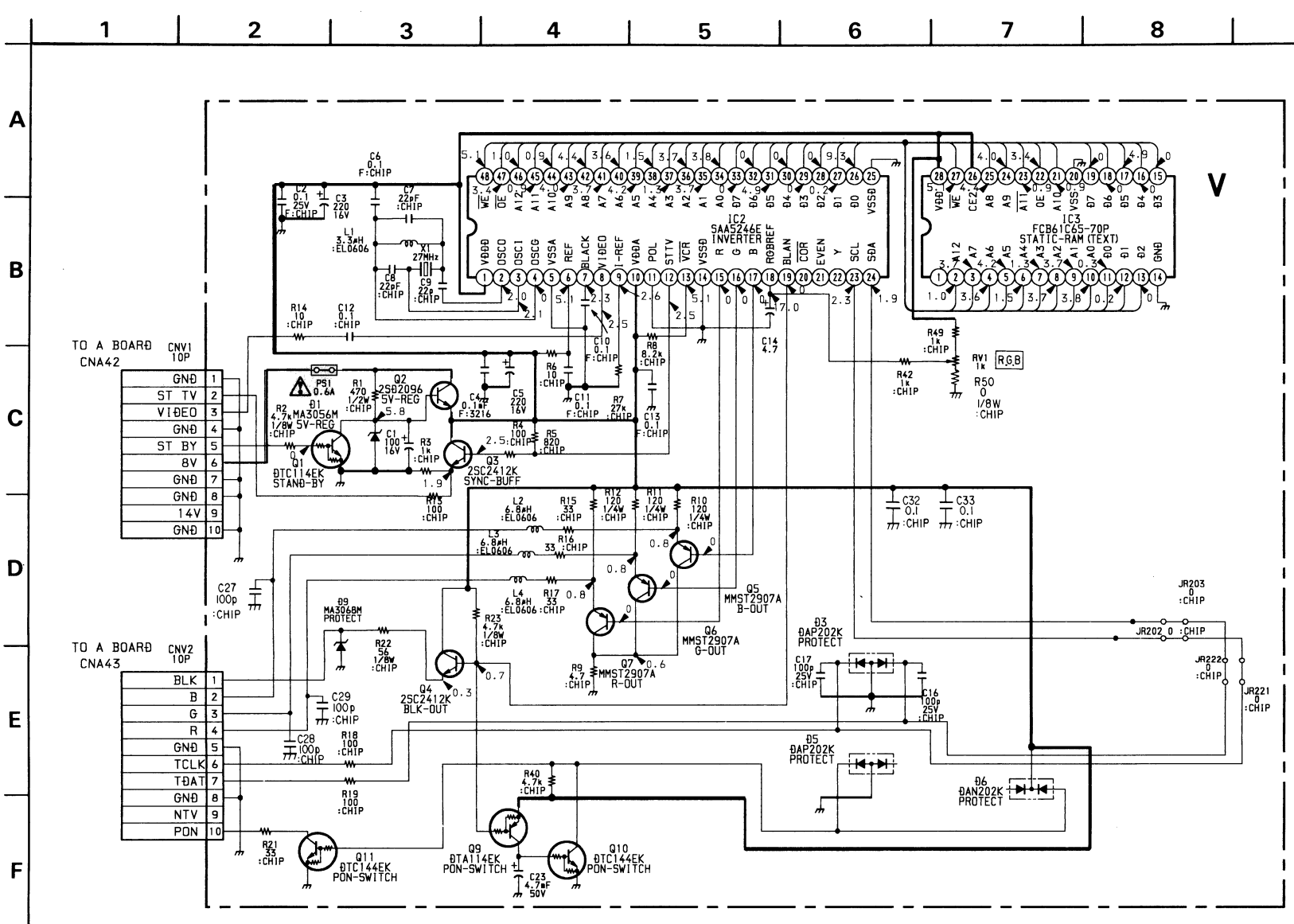


● A Board

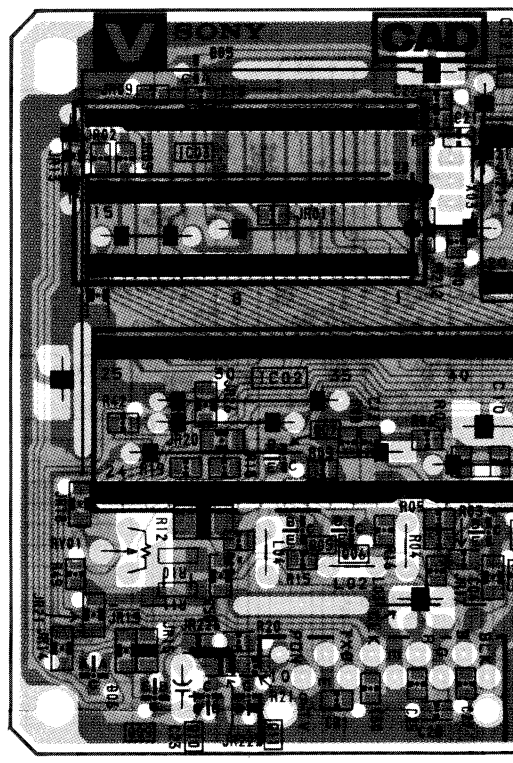
① PAL 1.2Vp-p (H)	① SECAM 1.6Vp-p (H)	① NTSC3.58/4.43 1.1Vp-p (H)	② PAL 1.0Vp-p (H)	② SECAM 1.3Vp-p (H)
② NTSC3.58/4.43 0.8Vp-p (H)	③ 0.5Vp-p (H)	④ 9.0Vp-p (H)	⑤ 3.8Vp-p (H)	⑥ PAL 3.6Vp-p (H)
⑥ SECAM NTSC3.58/4.43 3.8Vp-p (H)	⑦ PAL 3.4Vp-p (H)	⑦ SECAM/NTSC4.43 4 Vp-p (H)	⑦ NTSC3.58 3.8 Vp-p (H)	⑧ SECAM 0.4Vp-p (H)
⑨ SECAM 1.3Vp-p (H)	⑩ PAL 0.7Vp-p (H)	⑩ SECAM 1.7Vp-p (H)	⑩ NTSC3.58/4.43 0.6Vp-p (H)	⑪ PAL 0.5Vp-p (H)
⑪ SECAM 1.3Vp-p (H)	⑪ NTSC3.58 0.5Vp-p (H)	⑪ NTSC4.43 0.05Vp-p (H)	⑫ PAL 0.24 Vp-p (H)	⑫ SECAM 0.16Vp-p (H)
⑫ NTSC3.58/4.43 0.2Vp-p (H)	⑬ PAL 800Vp-p (H)	⑭ PAL 7 Vp-p (H)	⑮ PAL 170Vp-p (H)	⑯ PAL 0.65Vp-p (H)
⑰ PAL 3.3Vp-p (V)	⑱ PAL 1.7Vp-p (V)	⑲ PAL 2.6Vp-p (V)	⑳ PAL 1.5Vp-p (V)	㉑ PAL 27 Vp-p (V)
㉒ PAL 48 Vp-p (V)	㉓ PAL 2.2Vp-p (H)	㉔ PAL 1.8Vp-p (V)	㉕ PAL 2 Vp-p (V)	㉖ PAL 2 Vp-p (H)
㉗ PAL 0.65Vp-p (H)	㉘ PAL 2.4 Vp-p (H)			

[R. G. B OUT] C [TEXT] V

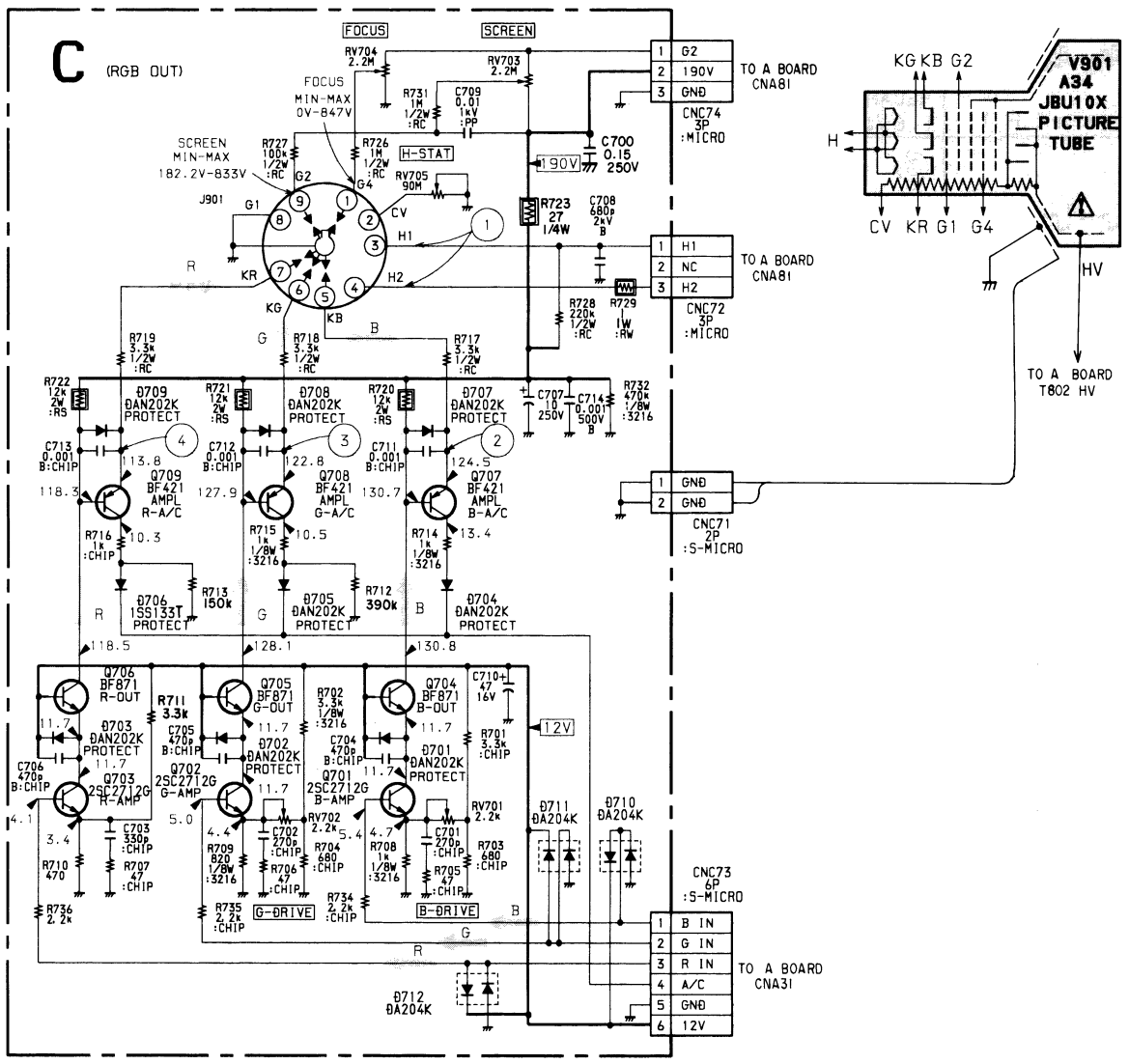


B-SS4050<AEP>-V..

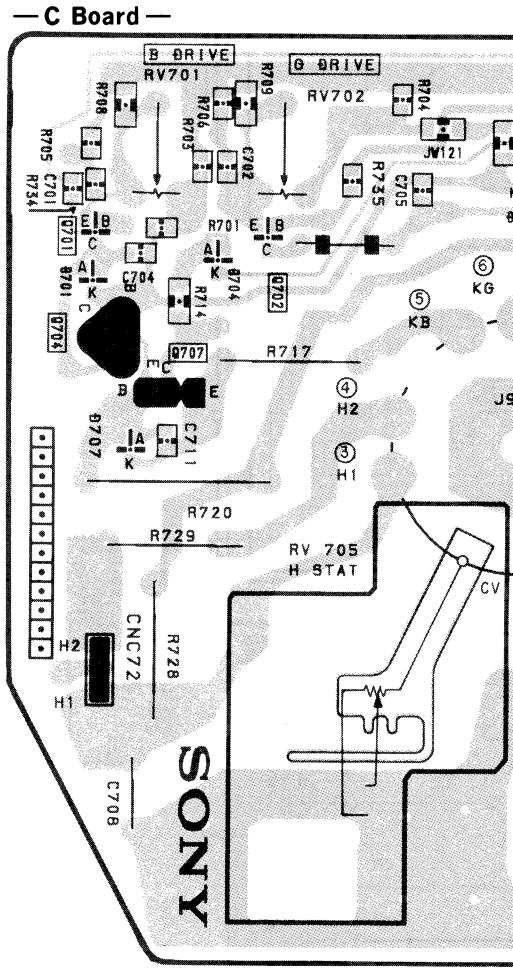
— V Board —



C (RGB OUT)



— C Board —

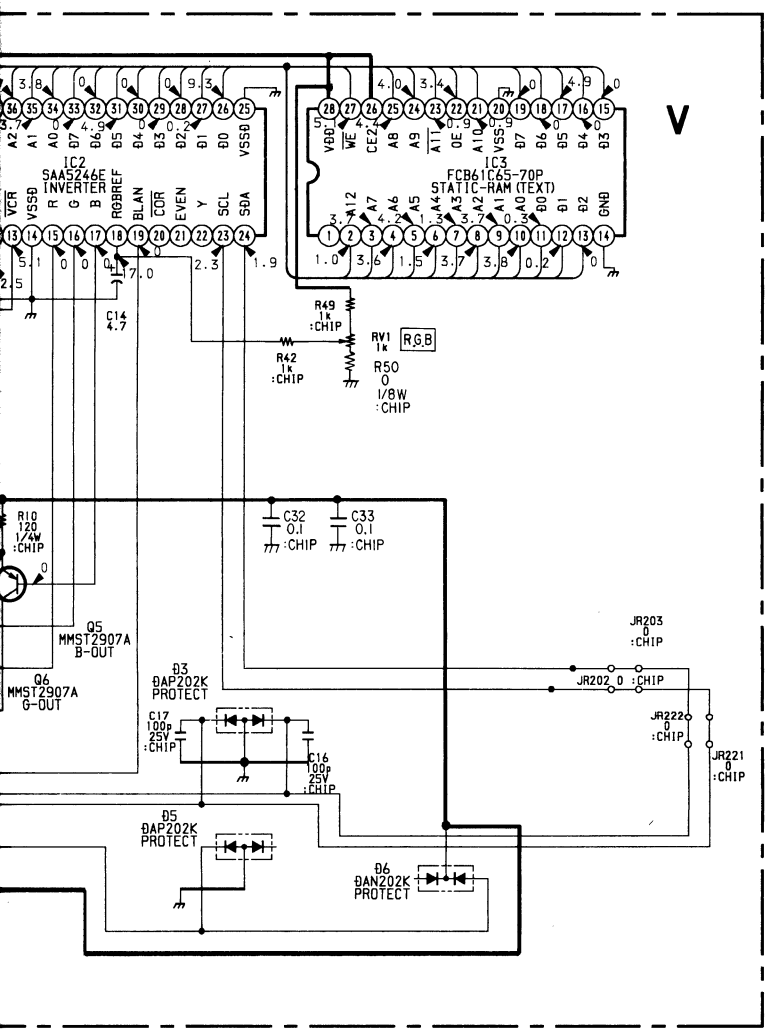


● C Board

①	②	③	④
21Vp-p (H)	65Vp-p (H)	73 Vp-p (H)	88 Vp-p (H)

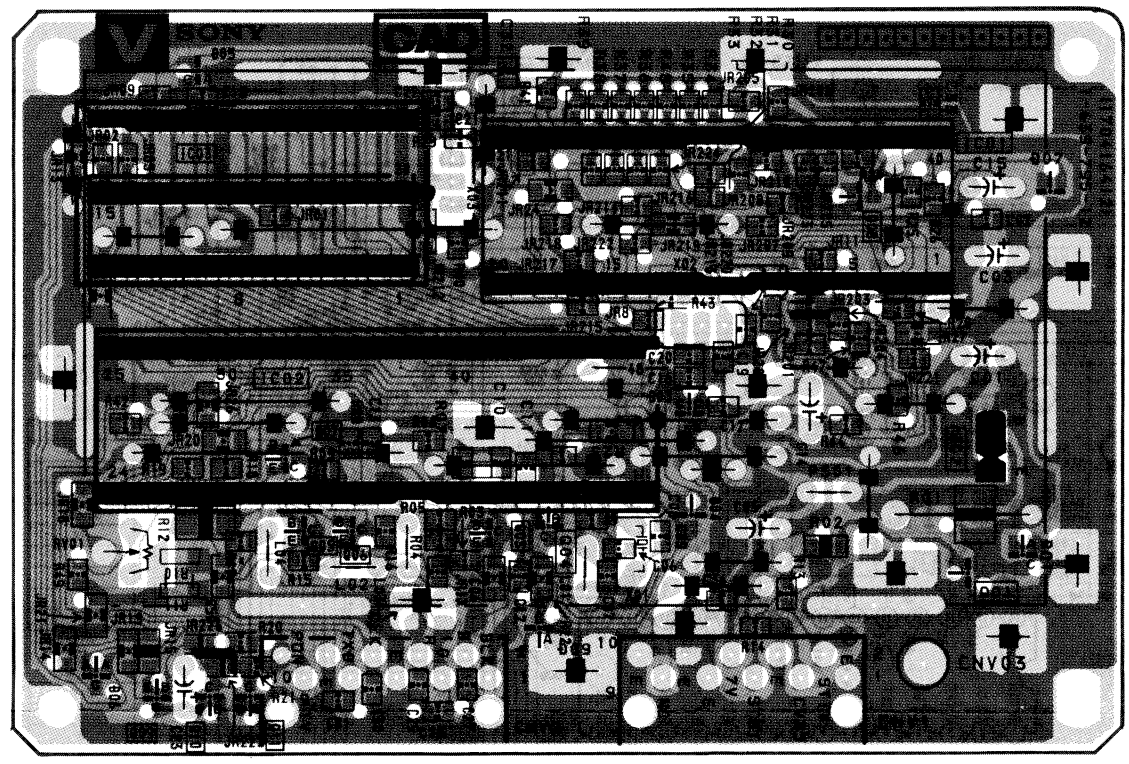
5 | 6 | 7 | 8 | 9

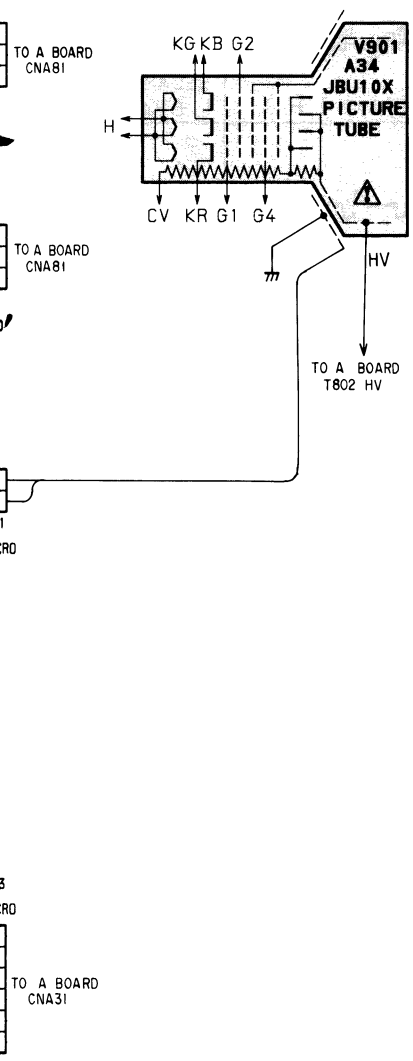
[R. G. B OUT] C [TEXT] V

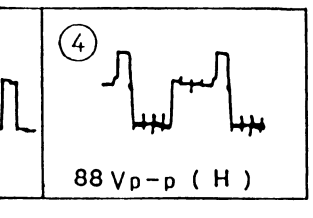


B-SS4050<AEP>-V..

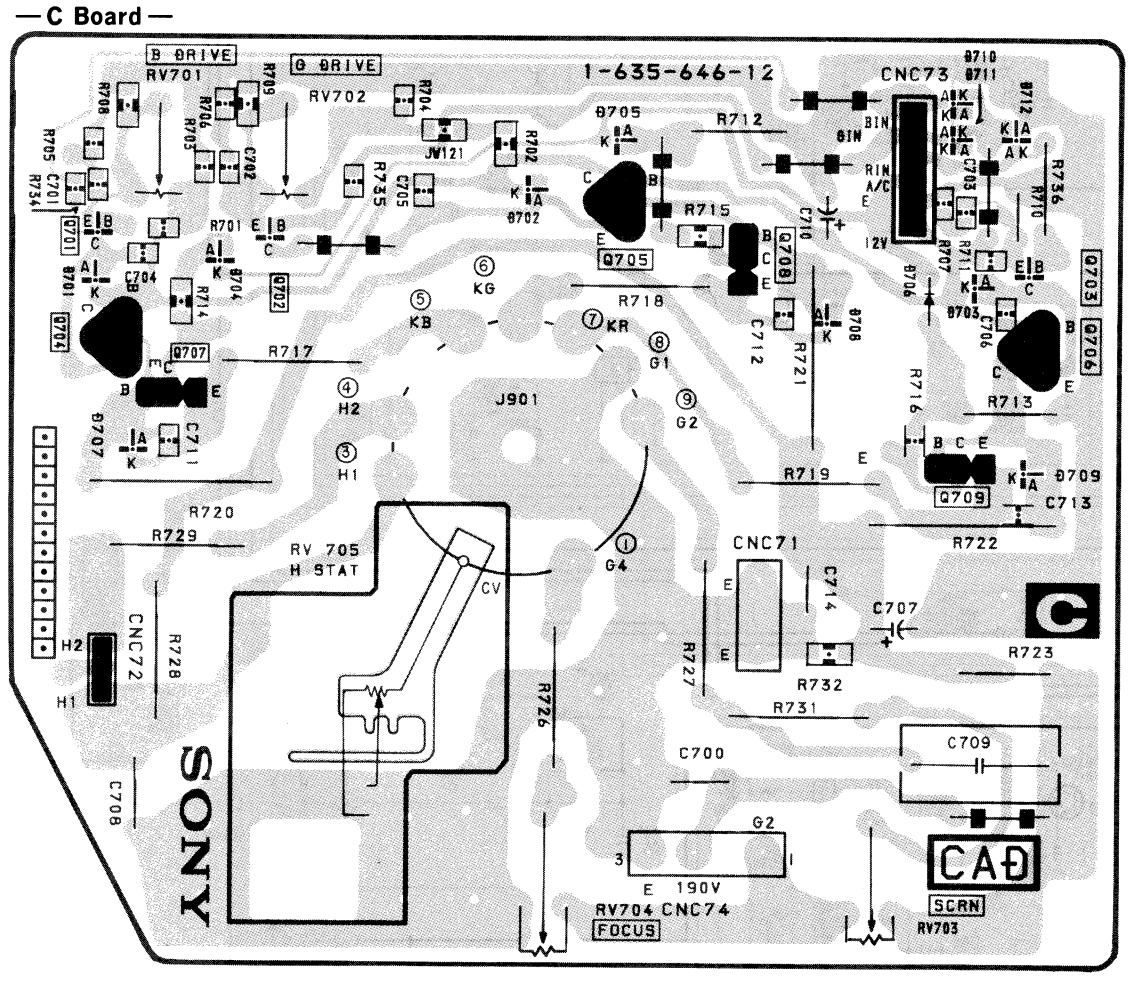
—V Board—







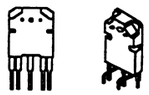
—C Board—



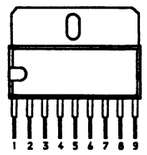
5-3. SEMICONDUCTOS

KEY-C00SV-F

STR54041



μPC1488H



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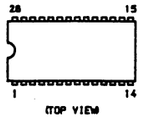
FCB61C65-70P
TDA4650/V4



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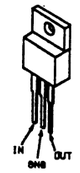

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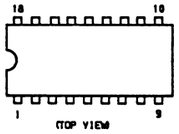
TDA7245



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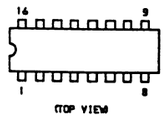

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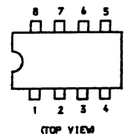

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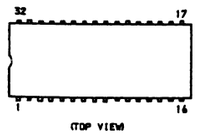

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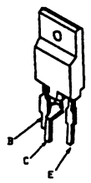

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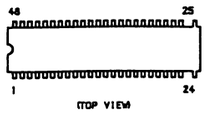

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DTA144EK
DTC124EK
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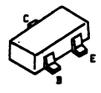
2SB1295-UL6
2SC1623-L5L6
2SC2712YG



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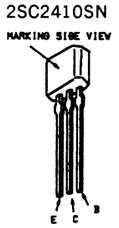

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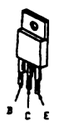

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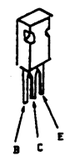
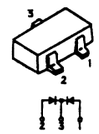


MA152WK



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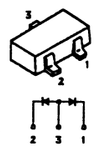

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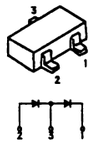

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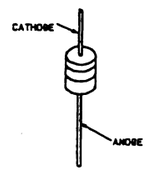
HZS7.5N-B3
HZS8.2N-B3



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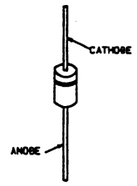

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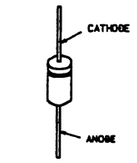
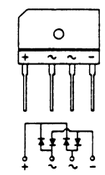
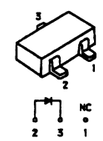


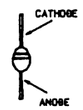
RBV-406H-01



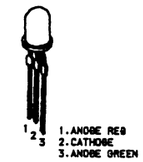
RD5.1M-B2
RD5.6M-B2
RD6.8M-B2



U05G



SPR-54MVW

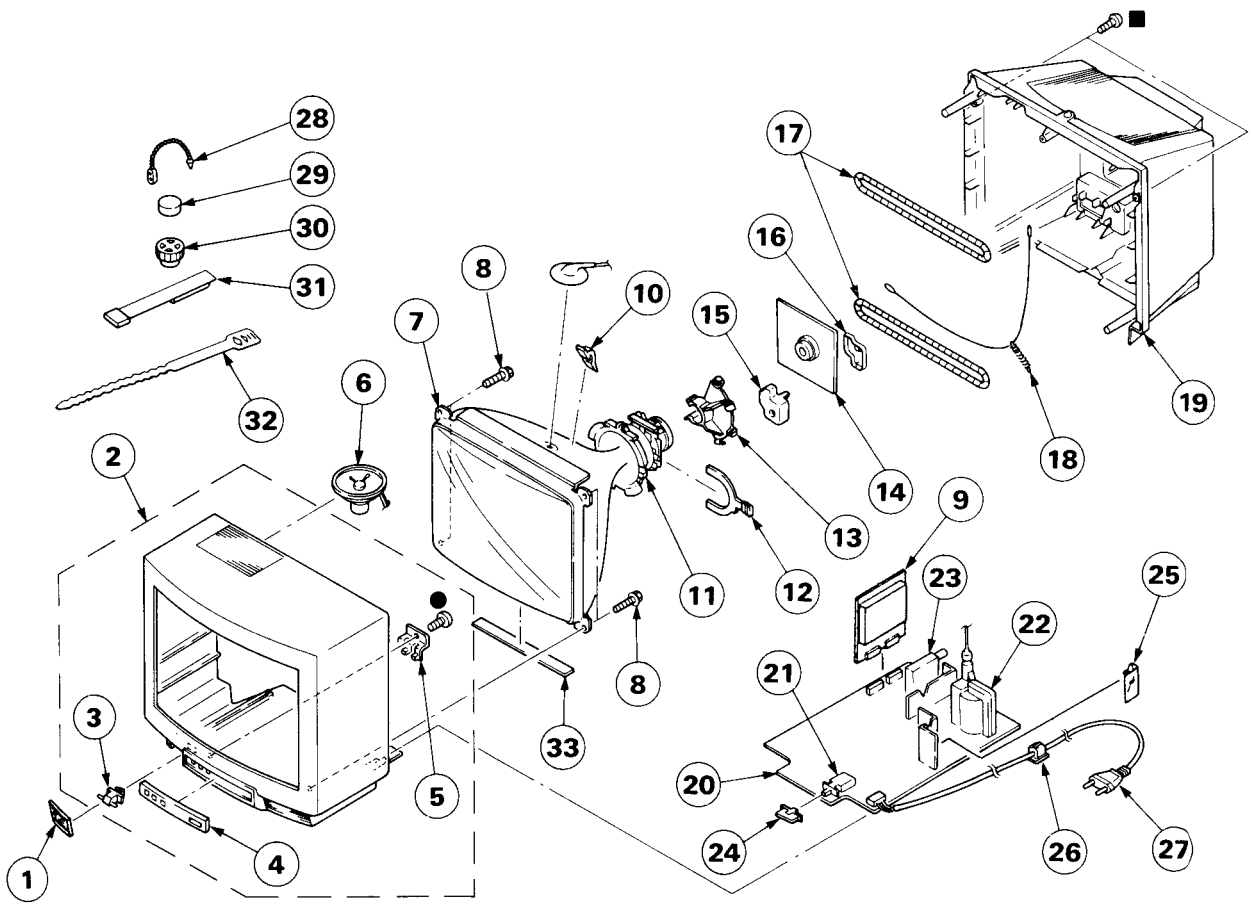


SECTION 6
EXPLODED VIEW

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

●: BVTP3×12 7-685-648-79
■: BVTP4×16 7-685-663-79



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	4-200-403-11	LID, CONTROL (WHITE)	
	4-200-403-21	LID, CONTROL (BLACK)	
2	X-4200-049-2	CABINET ASSY(WITH BEZEL ASSY)(WHITE)	3~5
	X-4200-049-3	CABINET ASSY(WITH BEZEL ASSY)(BLACK)	3~5
3	3-703-035-11	SHAFT, LID	
4	4-200-406-01	WINDOW, ORNAMENTAL	
5	4-200-405-01	BUTTON, MULTI	
6	1-544-374-11	SPEAKER	
7	⚠8-735-555-75	PICTURE TUBE (A34JBU10X)	
8	4-307-249-00	SCREW (5), TAPPING	
9	*A-1645-017-A	V BOARD, COMPLETE	
10	3-704-495-01	SPACER, DY	
11	⚠1-451-249-31	DEFLECTION YOKE (Y14NDA2)	
12	1-452-277-00	MAGNET, BMC	
13	*4-385-422-01	HOLDER, LEAD	
14	*A-1638-008-A	C BOARD, COMPLETE	
15	*4-374-912-01	COVER (MAIN), CV VOL	
16	*4-374-913-01	COVER (REAR LID), CV VOL	
17	⚠1-426-145-21	COIL, DEGAUSSING	
18	4-369-318-00	SPRING, TENSION	
19	4-200-410-01	COVER, REAR (BLACK)	
	4-200-410-11	COVER, REAR (WHITE)	
20	*A-1632-072-A	A BOARD, COMPLETE	
21	⚠1-571-433-12	SWITCH, PUSH (AC POWER)	
22	⚠1-439-432-11	TRANSFORMER ASSY, FLYBACK (UX-1620)	
23	⚠1-465-541-11	TUNER (BT-3C 301)	
24	4-200-404-01	BUTTON, POWER	
25	*4-200-400-01	PLATE, INSULATION	
26	⚠4-389-201-03	HOLDER, AC CORD	
27	⚠1-575-487-11	CORD,POWER (WITH NOISE FILTER)	
28	4-308-870-00	CLIP, LEAD WIRE	
29	1-452-032-00	MAGNET, DISK; 10MM ϕ	
30	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
31	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
32	3-701-007-00	BAND, BINDING	
33	4-389-350-11	CUSHION, PICTURE TUBE	

A

SECTION 7
ELECTRICAL PARTS LIST

NOTE:
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

CAPACITORS
• MF : μF, PF : μμF

COILS
• MMH : mH, UH : μH

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

RESISTORS
• All resistors are in ohms
• F : nonflammable

REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1632-072-A	A BOARD, COMPLETE			
		**********			
	*1-535-084-00	IP TERMINAL PIN			
	4-200-399-01	SPACER, IC			
	4-201-057-01	COVER, FUSE			
	*4-341-751-01	EYELET			
	*4-341-752-01	EYELET			
		<CAPACITOR>			
C001	1-126-101-11	ELECT	100MF	20%	16V
C002	1-106-220-00	MYLAR	0.1MF	10%	100V
C003	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C004	1-123-382-00	ELECT	3.3MF	20%	50V
C005	1-126-101-11	ELECT	100MF	20%	16V
C006	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C007	1-124-907-11	ELECT	10MF	20%	50V
C009	1-124-907-11	ELECT	10MF	20%	50V
C010	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C012	1-126-233-11	ELECT	22MF	20%	50V
C018	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C020	1-124-903-11	ELECT	1MF	20%	50V
C021	1-124-907-11	ELECT	10MF	20%	50V
C023	1-124-907-11	ELECT	10MF	20%	50V
C024	1-124-907-11	ELECT	10MF	20%	50V
C025	1-126-233-11	ELECT	22MF	20%	50V
C026	1-124-903-11	ELECT	1MF	20%	50V
C030	1-124-903-11	ELECT	1MF	20%	50V
C037	1-163-034-00	CERAMIC CHIP	0.033MF		50V
C038	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C039	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C041	1-124-478-11	ELECT	100MF	20%	25V
C055	1-163-075-00	CERAMIC CHIP	0.047MF		50V
C058	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C059	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C062	1-126-101-11	ELECT	100MF	20%	16V
C063	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C101	1-124-477-11	ELECT	47MF	20%	16V
C102	1-124-910-11	ELECT	47MF	20%	50V
C103	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C104	1-164-665-11	CERAMIC CHIP	0.039MF	10%	50V
C105	1-164-665-11	CERAMIC CHIP	0.039MF	10%	50V
C106	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C107	1-124-477-11	ELECT	47MF	20%	16V
C112	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C114	1-163-109-00	CERAMIC CHIP	47PF	5%	50V
C115	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C120	1-163-173-00	CERAMIC CHIP	47PF	5%	50V
C123	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C125	1-124-917-11	ELECT	33MF	20%	50V
C128	1-163-025-11	CERAMIC CHIP	0.001MF		50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C130	1-136-171-00	FILM	0.33MF	5%	50V
C131	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C132	1-163-029-11	CERAMIC CHIP	0.0047MF		50V
C133	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C134	1-106-365-00	MYLAR	0.0082MF	10%	400V
C135	1-163-033-00	CERAMIC CHIP	0.022MF		50V
C136	1-163-033-00	CERAMIC CHIP	0.022MF		50V
C138	1-216-295-00	METAL GLAZE	0	5% 1/10W	
C139	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C140	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C141	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C142	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C143	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C144	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C145	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C146	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C147	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V
C148	1-164-665-11	CERAMIC CHIP	0.039MF	10%	50V
C149	1-126-101-11	ELECT	100MF	20%	16V
C151	1-124-907-11	ELECT	10MF	20%	50V
C154	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C157	1-124-927-11	ELECT	4.7MF	20%	50V
C163	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C200	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C201	1-126-233-11	ELECT	22MF	20%	50V
C202	1-124-925-11	ELECT	2.2MF	20%	50V
C203	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C204	1-124-480-11	ELECT	470MF	20%	25V
C206	1-163-011-11	CERAMIC CHIP	0.0015MF	10%	50V
C207	1-124-925-11	ELECT	2.2MF	20%	50V
C208	1-126-104-11	ELECT	470MF	20%	35V
C209	1-124-910-11	ELECT	47MF	20%	50V
C211	1-163-077-00	CERAMIC CHIP	0.1MF	10%	25V
C212	1-164-348-11	CERAMIC CHIP	0.12MF	10%	25V
C300	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C302	1-163-059-00	CERAMIC CHIP	0.01MF		50V
C303	1-163-059-00	CERAMIC CHIP	0.01MF		50V
C304	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C305	1-124-910-11	ELECT	47MF	20%	50V
C306	1-106-220-00	MYLAR	0.1MF	10%	100V
C307	1-163-038-00	CERAMIC CHIP	0.1MF		25V
C308	1-124-910-11	ELECT	47MF	20%	50V
C309	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C311	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C312	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C313	1-163-105-00	CERAMIC CHIP	33PF	5%	50V
C314	1-163-103-00	CERAMIC CHIP	27PF	5%	50V
C316	1-163-377-11	CERAMIC CHIP	100PF	5%	50V
C317	1-163-093-00	CERAMIC CHIP	10PF	5%	50V
C318	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C319	1-163-038-00	CERAMIC CHIP	0.1MF		25V

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REF.NO.	PART NO.	DESCRIPTION		REMARK
C321	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C323	1-163-055-00	CERAMIC CHIP 0.0047MF	10%	50V
C329	1-131-367-00	TANTALUM 22MF	10%	16V
C330	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C331	1-124-927-11	ELECT 4.7MF	20%	50V
C332	1-130-783-00	MYLAR 0.33MF	10%	100V
C333	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V
C334	1-163-063-00	CERAMIC CHIP 0.022MF	10%	50V
C335	1-163-063-00	CERAMIC CHIP 0.022MF	10%	50V
C336	1-163-119-00	CERAMIC CHIP 120PF	5%	50V
C337	1-130-834-00	MYLAR 1MF	10%	63V
C338	1-106-220-00	MYLAR 0.1MF	10%	100V
C339	1-106-220-00	MYLAR 0.1MF	10%	100V
C340	1-162-568-11	CERAMIC CHIP 0.33MF	10%	16V
C341	1-130-783-00	MYLAR 0.33MF	10%	100V
C343	1-106-383-00	MYLAR 0.047MF	10%	100V
C344	1-130-783-00	MYLAR 0.33MF	10%	100V
C345	1-163-187-00	CERAMIC CHIP 150PF	5%	50V
C346	1-163-033-00	CERAMIC CHIP 0.022MF		50V
C347	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V
C348	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V
C349	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V
C352	1-106-375-12	MYLAR 0.022MF	10%	250V
C353	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V
C354	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V
C355	1-163-037-11	CERAMIC CHIP 0.022MF	10%	25V
C356	1-163-237-11	CERAMIC CHIP 27PF	5%	50V
C357	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C358	1-124-556-11	ELECT 2200MF	20%	16V
C359	1-163-125-00	CERAMIC CHIP 220PF	5%	50V
C360	1-124-903-11	ELECT 1MF	20%	50V
C361	1-163-237-11	CERAMIC CHIP 27PF	5%	50V
C367	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C370	1-126-233-11	ELECT 22MF	20%	50V
C388	1-106-220-00	MYLAR 0.1MF	10%	100V
C401	1-124-910-11	ELECT 47MF	20%	50V
C402	1-124-910-11	ELECT 47MF	20%	50V
C403	1-102-824-00	CERAMIC 470PF	5%	50V
C404	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C429	1-163-197-00	CERAMIC CHIP 470PF	10%	50V
C430	1-130-783-00	MYLAR 0.33MF	10%	100V
C431	1-124-910-11	ELECT 47MF	20%	50V
C432	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C433	1-126-233-11	ELECT 22MF	20%	25V
C434	1-163-031-11	CERAMIC CHIP 0.01MF		50V
C475	1-126-233-11	ELECT 22MF	20%	50V
C476	1-106-216-00	MYLAR 0.068MF	10%	100V
C499	1-163-205-00	CERAMIC CHIP 0.001MF	10%	50V
C500	1-163-109-00	CERAMIC CHIP 47PF	5%	50V
C501	1-163-181-00	CERAMIC CHIP 100PF	5%	50V
C502	1-163-005-11	CERAMIC CHIP 470PF	10%	50V
C503	1-163-181-00	CERAMIC CHIP 100PF	5%	50V
C504	1-124-122-11	ELECT 100MF	20%	50V
C505	1-126-233-11	ELECT 22MF	20%	50V
C506	1-106-228-00	MYLAR 0.22MF	10%	100V
C507	1-124-557-11	ELECT 1000MF	20%	25V
C508	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C509	1-162-568-11	CERAMIC CHIP 0.33MF	10%	16V
C510	1-163-081-00	CERAMIC CHIP 0.22MF		25V
C511	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C512	1-106-216-00	MYLAR 0.068MF	10%	100V
C513	1-124-927-11	ELECT 4.7MF	20%	50V
C514	1-136-298-00	FILM 0.0033MF	5%	100V
C515	1-163-035-00	CERAMIC CHIP 0.047MF		50V
C516	1-163-113-00	CERAMIC CHIP 68PF	5%	50V
C517	1-163-033-00	CERAMIC CHIP 0.022MF		50V
C520	1-163-033-00	CERAMIC CHIP 0.022MF		50V
C521	1-131-377-00	TANTALUM 10MF	10%	10V
C524	1-106-228-00	MYLAR 0.22MF	10%	100V
C525	1-106-216-00	MYLAR 0.068MF	10%	100V
C526	1-124-910-11	ELECT 47MF	20%	50V
C527	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
C529	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C530	1-163-197-00	CERAMIC CHIP 470PF	5%	50V
C531	1-163-113-00	CERAMIC CHIP 68PF	5%	50V
C532	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C536	1-124-927-11	ELECT 4.7MF	20%	50V
C537	1-163-038-00	CERAMIC CHIP 0.1MF		25V
C540	1-163-111-00	CERAMIC CHIP 56PF	5%	50V
C601 ⚠	1-161-964-61	CERAMIC 0.0047MF		250V
C602 ⚠	1-161-964-61	CERAMIC 0.0047MF		250V
C603	1-162-599-12	CERAMIC 0.0047MF		250V
C604	1-125-318-00	ELECT(BLOCK) 220MF	20%	400V
C606	1-136-637-11	FILM 0.047MF	10%	630V
C607	1-106-367-00	MYLAR 0.01MF	10%	400V
C608	1-161-753-00	CERAMIC 470PF	10%	3KV
C609	1-124-347-00	ELECT 100MF	20%	160V
C610	1-124-557-11	ELECT 1000MF	20%	25V
C612	1-102-228-00	CERAMIC 470PF	10%	500V
C614	1-126-101-11	ELECT 100MF	20%	16V
C616 ⚠	1-164-246-11	CERAMIC 0.0022MF	20%	400V
C618	1-126-233-11	ELECT 22MF	20%	50V
C621 ⚠	1-136-517-11	FILM 0.22MF	20%	300V
C623 ⚠	1-164-246-11	CERAMIC 0.0022MF	20%	400V
C624	1-161-754-00	CERAMIC 0.001MF	10%	2KV
C625 ⚠	1-136-517-11	FILM 0.22MF	20%	300V
C626 ⚠	1-163-161-91	CERAMIC CHIP 15PF	5%	50V
C627 ⚠	1-163-161-91	CERAMIC CHIP 15PF	5%	50V
C801	1-136-559-11	MYLAR 0.0047MF	10%	400V
C802	1-102-212-00	CERAMIC 820PF	10%	500V
C803	1-102-244-00	CERAMIC 220PF	10%	500V
C804	1-126-101-11	ELECT 100MF	20%	16V
C805 ⚠	1-136-076-11	FILM 0.0085MF	3%	2KV
C806 ⚠	**1-108-703-11**	**MYLAR 0.082MF**	**10%**	**200V**
C807 ⚠	1-162-116-51	CERAMIC 680PF	10%	2KV
C808	1-136-932-11	FILM 0.82MF	5%	100V
C809	1-106-367-00	MYLAR 0.01MF	10%	400V
C811	1-136-540-11	FILM 0.82MF	5%	160V
C812	1-124-634-11	ELECT 1MF	20%	250V
C813	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V
C814	1-123-932-00	ELECT 4.7MF	20%	160V
C815	1-126-233-11	ELECT 22MF	20%	50V
C816	1-102-228-00	CERAMIC 470PF	10%	500V
C817	1-123-948-00	ELECT 22MF	20%	250V
C818	1-106-375-12	MYLAR 0.022MF	10%	250V
C819	1-162-114-00	CERAMIC 0.0047MF		2KV
C820	1-162-318-11	CERAMIC 0.001MF	10%	500V
C821	1-126-101-11	ELECT 100MF	20%	16V
C822	1-162-318-11	CERAMIC 0.001MF	10%	500V
C823	1-126-233-11	ELECT 22MF	20%	50V
C824	1-124-913-11	ELECT 470MF	20%	50V
C825	1-106-367-00	MYLAR 0.01MF	10%	400V
C826	1-137-146-11	FILM 0.15MF	10%	250V
C840	1-124-902-00	ELECT 0.47MF	20%	50V

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REF.NO.	PART NO.	DESCRIPTION	REMARK
		<FILTER>	
CD101	1-579-110-11	DISCRIMINATOR, CERAMIC	
CF501	1-404-801-11	TRAP, CERAMIC	
SWF101	1-579-120-11	FILTER, SURFACE WAVE	
XF501	1-527-840-00	FILTER, CERAMIC	
		<CONNECTOR>	
CNA21	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)	
CNA31	*1-568-881-51	PIN, CONNECTOR 6P	
CNA42	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR	
CNA43	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR	
CNA61	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
CNA62	*1-566-664-11	PIN, CONNECTOR 4P	
CNA64	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
CNA81	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P	
CNA82	*1-568-536-11	PLUG (MINIATURE DY) 6P	
CNA83	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P	
		<TRIMMER>	
CT332	1-141-418-11	CAP, ADJ	
		<DIODE>	
D002	8-719-920-55	DIODE SPR-54MVW	
	4-200-407-01	HOLDER, LED; D002	
D004	8-719-914-44	DIODE DAP202K	
D007	8-719-400-18	DIODE MA152WK	
D008	8-719-105-82	DIODE RD5.1M-B2	
D009	8-719-105-82	DIODE RD5.1M-B2	
D011	8-719-912-20	DIODE 1SS120	
D015	8-719-911-19	DIODE 1SS119	
D020	8-719-911-19	DIODE 1SS119	
D101	8-719-929-08	DIODE HZS7.5NB3	
D102	8-719-929-08	DIODE HZS7.5NB3	
D103	8-719-929-08	DIODE HZS7.5NB3	
D104	8-719-400-18	DIODE MA152WK	
D110	8-719-010-38	DIODE UZ-5.1BSB	
D301	8-719-914-44	DIODE DAP202K	
D302	8-719-800-76	DIODE 1SS226	
D303	8-719-400-18	DIODE MA152WK	
D305	8-719-800-76	DIODE 1SS226	
D306	8-719-400-18	DIODE MA152WK	
D313	8-719-800-76	DIODE 1SS226	
D321	8-719-109-89	DIODE RD5.6ES-B2	
D324	8-719-914-44	DIODE DAP202K	
D333	8-719-911-19	DIODE 1SS119	
D402	8-719-109-96	DIODE HZS6.8NB1	
D403	8-719-109-96	DIODE HZS6.8NB1	
D404	8-719-109-96	DIODE HZS6.8NB1	
D405	8-719-929-12	DIODE HZS8.2NB3	
D406	8-719-929-12	DIODE HZS8.2NB3	
D410	8-719-109-96	DIODE HZS6.8NB1	
D411	8-719-109-96	DIODE HZS6.8NB1	
D417	8-719-914-44	DIODE DAP202K	
D418	8-719-914-44	DIODE DAP202K	
D426	8-719-109-96	DIODE HZS6.8NB1	
D501	8-719-300-33	DIODE RU-3AM	
D503	8-719-911-19	DIODE 1SS119	
D504	8-719-400-18	DIODE MA152WK	
D519	8-719-400-18	DIODE MA152WK	
D601 ⚠	8-719-946-90	DIODE KBU4JL-6088	
D602	8-719-976-64	DIODE RGP02-17	
D603	8-719-911-55	DIODE U05G	
D604	8-719-979-85	DIODE EGP20G	
D605	8-719-300-33	DIODE RU-3AM	
D606	8-719-980-78	DIODE ERA83-006	
D607	8-719-300-33	DIODE RU-3AM	
D608	8-719-300-33	DIODE RU-3AM	
D609	8-719-911-55	DIODE U05G	
D610	8-719-911-55	DIODE U05G	
D611	8-719-303-49	DIODE R2M	
D801	8-719-945-80	DIODE ERC06-15S	
D802	8-719-979-85	DIODE EGP20G	
D803	8-719-300-33	DIODE RU-3AM	
D805	8-719-300-33	DIODE RU-3AM	
D806	8-719-976-64	DIODE RGP02-17	
D807	8-719-300-33	DIODE RU-3AM	
D808	8-719-300-33	DIODE RU-3AM	
D810	8-719-911-55	DIODE U05G	
D811	8-719-911-55	DIODE U05G	
D820	8-719-911-19	DIODE 1SS119	
		<DELAY LINE>	
DL301	1-236-062-11	MODULE, Y DELAY LINE	
		<FUSE>	
F601 ⚠	1-576-231-21	FUSE (H.B.C.) 4A/250V	
	1-533-230-11	HOLDER, FUSE; F601	
		<IC>	
IC001	8-759-062-07	IC PCA84C840P/016	
IC002	8-759-043-86	IC ST24C02AB1	
IC003	8-749-922-13	IC KEY-C00SV-F	
IC004	8-759-805-37	IC L78LR05D-MA	
IC005	8-759-157-40	IC UPC574J	
IC102	8-759-044-41	IC TDA3827/V3	
IC201	8-759-502-74	IC TDA7245	
IC301	8-759-505-39	IC TDA4660V2	
IC302	8-759-512-04	IC TDA3505-V1	
IC331	8-759-521-22	IC TDA4650/V4	
IC501	8-759-113-05	IC UPC1488H	
	*4-389-343-01	SPRING; IC501	
IC502	8-759-515-72	IC TDA8304	
IC601	8-749-901-65	IC STR54041	
	*4-368-683-01	SPRING; IC601	
IC801	8-759-945-58	IC RC4558P	
IC802	8-759-604-39	IC M5F78M12L	
	*4-389-343-01	SPRING; IC802	
		<JACK>	
J201	1-562-837-11	JACK	
J401	1-561-534-00	SOCKET 21P	
J402	1-563-500-11	JACK BLOCK, PIN (L TYPE) 2P	
		<COIL>	
L001	1-408-409-00	INDUCTOR 10UH	
L102	1-408-409-00	INDUCTOR 10UH	
L103	1-408-399-00	INDUCTOR 1.5UH	
L105	1-410-872-21	INDUCTOR 10UH	
L106	1-408-415-00	INDUCTOR 33UH	
L107	1-408-410-00	INDUCTOR 12UH	
L201	1-408-409-00	INDUCTOR 10UH	

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Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION		REMARK
L301	1-408-409-00	INDUCTOR	10UH	
L302	1-408-419-00	INDUCTOR	68UH	
L303	1-408-425-00	INDUCTOR	220UH	
L331	1-404-554-11	COIL		
L404	1-408-397-00	INDUCTOR	1UH	
L405	1-408-409-00	INDUCTOR	10UH	
L406	1-408-417-00	INDUCTOR	47UH	
L501	1-404-493-31	COIL		
L502	1-408-407-00	INDUCTOR	6.8UH	
L506	1-408-411-00	INDUCTOR	15UH	
L801	1-407-365-00	COIL,CHOKE		
L802	1-420-872-00	COIL, AIR CORE		
L804	1-459-856-11	COIL, FERRITE		
L805	1-408-236-00	INDUCTOR	2.7MMH	
L806	1-459-756-12	COIL, HORIZONTAL LINEARITY		
L807	1-410-067-21	INDUCTOR	4.7MMH	
L808	1-408-226-00	INDUCTOR	82UH	
L809	1-407-504-00	INDUCTOR	10MMH	
		<VARIABLE COIL>		
LV301	1-404-554-11	COIL		
		<IC LINK>		
PS801⚠	1-532-679-91	LINK, IC (ICP-N15) 0.6A		
		<TRANSISTOR>		
Q001	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q003	8-729-901-01	TRANSISTOR DTC144EK		
Q004	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q005	8-729-923-54	TRANSISTOR DTA143TK		
Q006	8-729-922-66	TRANSISTOR 2SC2410SN		
Q007	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q009	8-729-901-01	TRANSISTOR DTC144EK		
Q015	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q016	8-729-901-47	TRANSISTOR DTA143EK		
Q017	8-729-216-22	TRANSISTOR 2SA1162-G		
Q019	8-729-901-06	TRANSISTOR DTA144EK		
Q020	8-729-901-00	TRANSISTOR DTC124EK		
Q101	8-729-901-47	TRANSISTOR DTA143EK		
Q102	8-729-901-47	TRANSISTOR DTA143EK		
Q103	8-729-901-47	TRANSISTOR DTA143EK		
Q104	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q106	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q107	8-729-216-22	TRANSISTOR 2SA1162-G		
Q112	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q114	8-729-901-00	TRANSISTOR DTC124EK		
Q115	8-729-901-00	TRANSISTOR DTC124EK		
Q141	8-729-014-99	TRANSISTOR BF959-AMMO		
Q302	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q303	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q304	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q305	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q307	8-729-216-22	TRANSISTOR 2SA1162-G		
Q310	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q311	8-729-216-22	TRANSISTOR 2SA1162-G		
Q401	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q457	8-729-216-22	TRANSISTOR 2SA1162-G		
Q504	8-729-230-49	TRANSISTOR 2SC2712-YG		
Q505	8-729-216-22	TRANSISTOR 2SA1162-G		
Q601	8-729-906-74	TRANSISTOR BC637-16		
Q801	8-729-119-80	TRANSISTOR 2SC2688-LK		
Q802	8-729-925-64	TRANSISTOR BU508AS2		
Q803	8-729-202-03	TRANSISTOR 2SD1408-Y		
		<RESISTOR>		
JR001	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR002	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR003	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR004	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR005	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR006	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR008	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR009	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR010	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR011	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR012	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR015	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR016	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR017	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR018	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR019	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR020	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR021	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR022	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR024	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR026	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR028	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR029	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR030	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR034	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR035	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR036	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR037	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR038	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR039	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR040	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR041	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR045	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR050	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR060	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR099	1-216-295-00	METAL GLAZE	0 5% 1/10W	
JR101	1-216-296-00	METAL GLAZE	0 5% 1/8W	
JR102	1-216-296-00	METAL GLAZE	0 5% 1/8W	
JR103	1-216-296-00	METAL GLAZE	0 5% 1/8W	
JR104	1-216-296-00	METAL GLAZE	0 5% 1/8W	
JR105	1-216-296-00	METAL GLAZE	0 5% 1/8W	
JR106	1-216-296-00	METAL GLAZE	0 5% 1/8W	
JR107	1-216-296-00	METAL GLAZE	0 5% 1/8W	
JR108	1-216-296-00	METAL GLAZE	0 5% 1/8W	
JR109	1-216-296-00	METAL GLAZE	0 5% 1/8W	
JR110	1-216-296-00	METAL GLAZE	0 5% 1/8W	
JR111	1-216-296-00	METAL GLAZE	0 5% 1/8W	
JR112	1-216-296-00	METAL GLAZE	0 5% 1/8W	
JR116	1-216-296-00	METAL GLAZE	0 5% 1/8W	
JR117	1-216-296-00	METAL GLAZE	0 5% 1/8W	
JR118	1-216-296-00	METAL GLAZE	0 5% 1/8W	
JR119	1-216-296-00	METAL GLAZE	0 5% 1/8W	
JR123	1-216-296-00	METAL GLAZE	0 5% 1/8W	
JR125	1-216-296-00	METAL GLAZE	0 5% 1/8W	
JR126	1-216-296-00	METAL GLAZE	0 5% 1/8W	
JR127	1-216-296-00	METAL GLAZE	0 5% 1/8W	
JR128	1-216-296-00	METAL GLAZE	0 5% 1/8W	
JR129	1-216-296-00	METAL GLAZE	0 5% 1/8W	

REF.NO.	PART NO.	DESCRIPTION				REMARK
JR130	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR131	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR133	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR134	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR135	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR136	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR137	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR139	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR141	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR144	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR146	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR147	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR148	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR149	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR150	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR154	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR155	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR182	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR183	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR184	1-216-296-00	METAL GLAZE	0	5%	1/8W	
R001	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R002	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R003	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R004	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R005	1-216-206-00	METAL GLAZE	2.2K	5%	1/8W	
R006	1-216-246-00	METAL GLAZE	100K	5%	1/8W	
R007	1-216-190-00	METAL GLAZE	470	5%	1/8W	
R008	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R009	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R010	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R011	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R012	1-216-240-00	METAL GLAZE	56K	5%	1/8W	
R013	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R014	1-216-748-11	METAL GLAZE	39K	5%	1/10W	
R015	1-216-230-00	METAL GLAZE	22K	5%	1/8W	
R016	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R017	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R018	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R019	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R020	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R021	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R022	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R023	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R024	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R025	1-216-097-00	METAL GLAZE	100K	5%	1/10W	
R026	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R028	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R029	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R030	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R031	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R032	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R033	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R034	1-216-238-00	METAL GLAZE	47K	5%	1/8W	
R035	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R037	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R038	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R039	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R040	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R041	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R042	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R043	1-215-900-11	METAL OXIDE	22K	5%	2W	
R044	1-216-105-00	METAL GLAZE	220K	5%	1/10W	
R045	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R046	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R047	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R048	1-216-202-00	METAL GLAZE	1.5K	5%	1/8W	
R049	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R050	1-216-250-00	METAL GLAZE	150K	5%	1/8W	
R051	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R052	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R053	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R054	1-249-395-11	CARBON	15	5%	1/4W	
R055	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R056	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R058	1-249-434-11	CARBON	27K	5%	1/4W	
R059	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R060	1-216-234-00	METAL GLAZE	33K	5%	1/8W	
R061	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R062	1-216-242-00	METAL GLAZE	68K	5%	1/8W	
R064	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R075	1-216-240-00	METAL GLAZE	56K	5%	1/8W	
R076	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R077	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R078	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R079	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R081	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R082	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R083	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R084	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R087	1-216-027-00	METAL GLAZE	120	5%	1/10W	
R094	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R095	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R096	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R097	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R099	1-216-228-00	METAL GLAZE	18K	5%	1/8W	
R100	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R101	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R102	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R103	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R104	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R105	1-216-109-00	METAL GLAZE	330K	5%	1/10W	
R106	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R107	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R108	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R109	1-216-190-00	METAL GLAZE	470	5%	1/8W	
R110	1-249-437-11	CARBON	47K	5%	1/4W	
R111	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R112	1-249-411-11	CARBON	330	5%	1/4W	
R113	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R114	1-216-238-00	METAL GLAZE	47K	5%	1/8W	
R115	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R116	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R118	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R119	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R130	1-249-409-11	CARBON	220	5%	1/4W	
R131	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R132	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R136	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R138	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R139	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R140	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R141	1-216-021-00	METAL GLAZE	68	5%	1/10W	
R142	1-216-063-00	METAL GLAZE	3.9K	5%	1/10W	
R143	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R144	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R147	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R148	1-216-017-00	METAL GLAZE	47	5%	1/10W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R149	1-216-182-00	METAL GLAZE	220	5%	1/8W	
R151	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R152	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R153	1-215-867-00	METAL OXIDE	470	5%	1W	
R199	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R201	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R202	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R203	1-216-298-00	METAL GLAZE	2.2	5%	1/10W	
R204	1-247-741-11	CARBON	150	5%	1/2W	
R205	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R206	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R207	1-216-298-00	METAL GLAZE	2.2	5%	1/10W	
R303	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R304	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R305	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R306	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R307	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R308	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R309	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W	
R310	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R311	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R312	1-216-182-00	METAL GLAZE	220	5%	1/8W	
R313	1-216-182-00	METAL GLAZE	220	5%	1/8W	
R314	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R315	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R316	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R317	1-216-202-00	METAL GLAZE	1.5K	5%	1/8W	
R320	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R321	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R322	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R323	1-216-192-00	METAL GLAZE	560	5%	1/8W	
R324	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R325	1-249-410-11	CARBON	270	5%	1/4W	
R326	1-216-035-00	METAL GLAZE	270	5%	1/10W	
R327	1-216-121-00	METAL GLAZE	1M	5%	1/10W	
R328	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R329	1-216-109-00	METAL GLAZE	330K	5%	1/10W	
R330	1-216-244-00	METAL GLAZE	82K	5%	1/8W	
R331	1-216-113-00	METAL GLAZE	470K	5%	1/10W	
R332	1-216-270-00	METAL GLAZE	1M	5%	1/8W	
R333	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R334	1-216-067-00	METAL GLAZE	5.6K	5%	1/10W	
R335	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R336	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R337	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R338	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R341	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R342	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R346	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R347	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R348	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R349	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R350	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R351	1-216-043-00	METAL GLAZE	560	5%	1/10W	
R352	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R353	1-249-438-11	CARBON	56K	5%	1/4W	
R354	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R355	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R356	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R357	1-216-039-00	METAL GLAZE	390	5%	1/10W	
R360	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R363	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R364	1-216-222-00	METAL GLAZE	10K	5%	1/8W	
R399	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R402	1-216-172-00	METAL GLAZE	82	5%	1/8W	
R403	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R404	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R405	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R406	1-216-226-00	METAL GLAZE	15K	5%	1/8W	
R407	1-216-226-00	METAL GLAZE	15K	5%	1/8W	
R408	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R409	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R411	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R412	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R413	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R414	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R420	1-216-182-00	METAL GLAZE	220	5%	1/8W	
R421	1-216-449-11	METAL OXIDE	56	5%	2W	
R423	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R424	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R425	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R426	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R427	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R428	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R430	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R431	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R432	1-249-403-11	CARBON	68	5%	1/4W	
R433	1-216-079-00	METAL GLAZE	18K	5%	1/10W	
R434	1-216-029-00	METAL GLAZE	150	5%	1/10W	
R435	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R436	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R437	1-216-085-00	METAL GLAZE	33K	5%	1/10W	
R501	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W	
R502	1-247-743-11	CARBON	220	5%	1/2W	
R503	1-249-437-11	CARBON	47K	5%	1/4W	
R504	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R505	1-216-073-00	METAL GLAZE	10K	5%	1/10W	
R507	1-216-350-11	METAL OXIDE	1.2	5%	1W	F
R508	1-215-867-00	METAL OXIDE	470	5%	1W	
R510	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R511	1-216-244-00	METAL GLAZE	82K	5%	1/8W	
R512	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R513	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R514	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W	
R515	1-216-683-11	METAL CHIP	22K	0.50%	1/10W	
R516	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R517	1-216-031-00	METAL GLAZE	180	5%	1/10W	
R518	1-216-033-00	METAL GLAZE	220	5%	1/10W	
R519	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R520	1-216-258-00	METAL GLAZE	330K	5%	1/8W	
R521	1-216-053-00	METAL GLAZE	1.5K	5%	1/10W	
R522	1-215-863-11	METAL OXIDE	100	5%	1W	
R523	1-247-754-11	CARBON	1.5K	5%	1/2W	
R524	1-216-099-00	METAL GLAZE	120K	5%	1/10W	
R525	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R527	1-215-869-11	METAL OXIDE	1K	5%	1W	
R532	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R533	1-216-133-00	METAL GLAZE	3.3M	5%	1/10W	
R534	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R535	1-216-107-00	METAL GLAZE	270K	5%	1/10W	
R539	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R542	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R543	1-249-408-11	CARBON	180	5%	1/4W	
R545	1-216-278-00	METAL GLAZE	2.2M	5%	1/8W	
R548	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R601 ⚠	1-205-909-11	WIREWOUND	3.3	5%	10W	F
R602	1-214-923-00	CARBON	270K	5%	1/2W	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
R603	1-215-903-11	METAL OXIDE	68K	5%	2W	
R604	1-247-752-11	CARBON	1K	5%	1/2W	
R605 ⚠	1-218-265-91	METAL GLAZE	8.2M	5%	1W	
R606	1-212-877-11	FUSIBLE	68	5%	1/4W	
R608	1-215-884-11	METAL OXIDE	47	5%	2W	
R609	1-207-905-00	WIREWOUND	0.27	10%	2W	
R611	1-214-915-00	CARBON	120K	5%	1/2W	
R612	1-219-137-11	FUSIBLE	0.33	5%	1/4W	
R613	1-217-811-11	FUSIBLE	0.47	5%	1/4W	
R614	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R615	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R617	1-216-354-11	METAL OXIDE	2.7	5%	1W	F
R620	1-216-465-11	METAL OXIDE	27K	5%	2W	
R621	1-216-465-11	METAL OXIDE	27K	5%	2W	
R801	1-217-778-11	FUSIBLE	1K	5%	1W	F
R802	1-217-826-11	FUSIBLE	10K	5%	1/4W	
R803	1-216-355-11	METAL OXIDE	3.3	5%	1W	F
R804	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R805	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R806	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R807	1-216-069-00	METAL GLAZE	6.8K	5%	1/10W	
R808	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R809	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R810	1-216-095-00	METAL GLAZE	82K	5%	1/10W	
R811	1-216-099-00	METAL GLAZE	120K	5%	1/10W	
R812	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R813	1-212-877-11	FUSIBLE	68	5%	1/4W	
R814	1-217-820-11	FUSIBLE	3.3K	5%	1/4W	
R816	1-247-889-00	CARBON	270K	5%	1/4W	
R817	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R818	1-202-830-00	SOLID	10K	10%	1/2W	
R819	1-217-811-11	FUSIBLE	0.47	5%	1/4W	
R820	1-217-811-11	FUSIBLE	0.47	5%	1/4W	
R821	1-216-059-00	METAL GLAZE	2.7K	5%	1/10W	
R822	1-216-204-00	METAL GLAZE	1.8K	5%	1/8W	
R824	1-215-863-11	METAL OXIDE	100	5%	1W	F
R826	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R827	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R850	1-215-882-00	METAL OXIDE	22	5%	2W	F
R851	1-247-895-00	CARBON	470K	5%	1/4W	

<VARIABLE RESISTOR>

RV001	1-238-012-11	RES, ADJ, CARBON 1K
RV331	1-238-012-11	RES, ADJ, CARBON 1K
RV501	1-238-016-11	RES, ADJ, CARBON 10K
RV502	1-226-703-11	RES, ADJ, METAL GLAZE 10K
RV503	1-238-019-11	RES, ADJ, CARBON 47K
RV504	1-238-019-11	RES, ADJ, CARBON 47K
RV505	1-238-009-11	RES, ADJ, CARBON 220
RV801	1-238-019-11	RES, ADJ, CARBON 47K

<SWITCH>

S001	1-571-532-21	SWITCH, TACTIL
S002	1-571-532-21	SWITCH, TACTIL
S003	1-571-532-21	SWITCH, TACTIL
S601 ⚠	1-571-433-12	SWITCH, PUSH (AC POWER)

<SPARK GAP>

SG801	1-519-422-11	GAP, SPARK

<TRANSFORMER>

T601 ⚠	1-450-217-22	S.R.T
T603 ⚠	1-421-776-21	LFT
T604 ⚠	1-424-078-11	TRANSFORMER, TRIGGER PULSE
T605 ⚠	1-424-391-11	TRANSFORMER, LINE FILTER
T801	1-437-090-00	HDT
T802 ⚠	1-439-432-11	TRANSFORMER ASSY, FLYBACK (UX-1620)

<THERMISTOR>

THP601 ⚠	1-806-165-12	THERMISTOR (POSITIVE)

<TUNER>

TU101 ⚠	1-465-541-11	TUNER (BT-3C 301)

<CRYSTAL>

X001	1-577-619-11	VIBRATOR, CRYSTAL
X332	1-567-131-00	OSCILLATOR, CRYSTAL

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	*A-1638-008-A	C BOARD, COMPLETE
		**********
	*4-374-912-01	COVER (MAIN), CV VOL
	*4-374-913-01	COVER (REAR LID), CV VOL

<CAPACITOR>

C700	1-137-146-11	FILM	0.15MF	10%	250V
C701	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C702	1-163-127-00	CERAMIC CHIP	270PF	5%	50V
C703	1-163-129-00	CERAMIC CHIP	330PF	5%	50V
C704	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C705	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C706	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C707	1-123-947-00	ELECT	10MF	20%	250V
C708	1-162-116-00	CERAMIC	680PF	10%	2KV
C709	1-136-666-11	FILM	0.01MF	5%	1KV
C710	1-124-477-11	ELECT	47MF	20%	16V
C711	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C712	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C713	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C714	1-162-318-11	CERAMIC	0.001MF	10%	500V

<CONNECTOR>

CNC71	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P
CNC72	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P
CNC73	*1-568-881-51	PIN, CONNECTOR 6P
CNC74	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P

<DIODE>

D701	8-719-400-18	DIODE MA152WK
D702	8-719-400-18	DIODE MA152WK
D703	8-719-400-18	DIODE MA152WK
D704	8-719-400-18	DIODE MA152WK
D705	8-719-400-18	DIODE MA152WK
D706	8-719-911-19	DIODE 1SS119
D707	8-719-400-18	DIODE MA152WK
D708	8-719-400-18	DIODE MA152WK
D709	8-719-400-18	DIODE MA152WK
D710	8-719-800-76	DIODE 1SS226

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

REF.NO.	PART NO.	DESCRIPTION				REMARK
D711	8-719-800-76	DIODE 1SS226				
D712	8-719-800-76	DIODE 1SS226				
		<JACK>				
J901	1-526-819-11	SOCKET, PICTURE TUBE				
		<TRANSISTOR>				
Q701	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q702	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q703	8-729-230-49	TRANSISTOR 2SC2712-YG				
Q704	8-729-906-70	TRANSISTOR BF871				
Q705	8-729-906-70	TRANSISTOR BF871				
Q706	8-729-906-70	TRANSISTOR BF871				
Q707	8-729-200-17	TRANSISTOR 2SA1091-O				
Q708	8-729-200-17	TRANSISTOR 2SA1091-O				
Q709	8-729-200-17	TRANSISTOR 2SA1091-O				
		<RESISTOR>				
JW121	1-216-296-00	METAL GLAZE	0	5%	1/8W	
R701	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R702	1-216-210-00	METAL GLAZE	3.3K	5%	1/8W	
R703	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R704	1-216-045-00	METAL GLAZE	680	5%	1/10W	
R705	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R706	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R707	1-216-017-00	METAL GLAZE	47	5%	1/10W	
R708	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R709	1-216-196-00	METAL GLAZE	820	5%	1/8W	
R710	1-249-413-11	CARBON	470	5%	1/4W	
R711	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	
R712	1-247-893-11	CARBON	390K	5%	1/4W	
R713	1-247-883-00	CARBON	150K	5%	1/4W	
R714	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R715	1-216-198-00	METAL GLAZE	1K	5%	1/8W	
R716	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R717	1-202-824-00	SOLID	3.3K	10%	1/2W	
R718	1-202-824-00	SOLID	3.3K	10%	1/2W	
R719	1-202-824-00	SOLID	3.3K	10%	1/2W	
R720	1-216-463-00	METAL OXIDE	12K	5%	2W	
R721	1-216-463-00	METAL OXIDE	12K	5%	2W	
R722	1-216-463-00	METAL OXIDE	12K	5%	2W	
R723	1-249-398-11	CARBON	27	5%	1/4W	F
R726	1-202-719-00	SOLID	1M	10%	1/2W	
R727	1-202-838-00	SOLID	100K	10%	1/2W	
R728	1-202-842-11	SOLID	220K	10%	1/2W	
R729	1-216-349-00	METAL OXIDE	1	5%	1W	F
R731	1-202-719-00	SOLID	1M	10%	1/2W	
R732	1-216-262-00	METAL GLAZE	470K	5%	1/8W	
R734	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R735	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R736	1-249-421-11	CARBON	2.2K	5%	1/4W	
		<VARIABLE RESISTOR>				
RV701	1-237-749-11	RES, ADJ, CARBON 2200				
RV702	1-237-749-11	RES, ADJ, CARBON 2200				
RV703	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M				
RV704	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M				
RV705	1-230-798-11	RES, ADJ, METAL GLAZE 90M				

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REF.NO.	PART NO.	DESCRIPTION			REMARK
	*A-1645-017-A	V BOARD, COMPLETE			
		**********			
		<CAPACITOR>			
C1	1-126-101-11	ELECT	100MF	20% 16V	
C2	1-163-038-00	CERAMIC CHIP	0.1MF	25V	
C3	1-124-120-11	ELECT	220MF	20% 16V	
C4	1-163-077-00	CERAMIC CHIP	0.1MF	50V	
C5	1-124-120-11	ELECT	220MF	20% 16V	
C6	1-163-038-00	CERAMIC CHIP	0.1MF	25V	
C7	1-163-235-11	CERAMIC CHIP	22PF	5% 50V	
C8	1-163-235-11	CERAMIC CHIP	22PF	5% 50V	
C9	1-163-235-11	CERAMIC CHIP	22PF	5% 50V	
C10	1-163-038-00	CERAMIC CHIP	0.1MF	25V	
C11	1-163-038-00	CERAMIC CHIP	0.1MF	25V	
C12	1-163-038-00	CERAMIC CHIP	0.1MF	25V	
C13	1-163-038-00	CERAMIC CHIP	0.1MF	25V	
C14	1-124-927-11	ELECT	4.7MF	20% 50V	
C16	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C17	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C23	1-124-927-11	ELECT	4.7MF	20% 50V	
C26	1-163-038-00	CERAMIC CHIP	0.1MF	25V	
C27	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C28	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C29	1-163-117-00	CERAMIC CHIP	100PF	5% 50V	
C32	1-163-038-00	CERAMIC CHIP	0.1MF	25V	
C33	1-163-038-00	CERAMIC CHIP	0.1MF	25V	
		<CONNECTOR>			
CNV1	*1-565-393-11	CONNECTOR, BOARD TO BOARD			
CNV2	*1-565-393-11	CONNECTOR, BOARD TO BOARD			
		<DIODE>			
D1	8-719-105-91	DIODE RD5.6M-B2			
D3	8-719-914-44	DIODE DAP202K			
D5	8-719-914-44	DIODE DAP202K			
D6	8-719-400-18	DIODE MA152WK			
D9	8-719-106-17	DIODE RD6.8M-B2			
		<IC>			
IC2	8-759-045-54	IC SAA5246P/E/M4A			
IC3	8-759-510-49	IC FCB61C65L-70P			
		<COIL>			
L1	1-408-403-00	INDUCTOR	3.3UH		
L2	1-408-407-00	INDUCTOR	6.8UH		
L3	1-408-407-00	INDUCTOR	6.8UH		
L4	1-408-407-00	INDUCTOR	6.8UH		
		<IC LINK>			
PS1	⚠1-532-679-91	LINK, IC (ICP-N15) 0.6A			
		<TRANSISTOR>			
Q1	8-729-900-53	TRANSISTOR DTC114EK			
Q2	8-729-920-92	TRANSISTOR 2SD2096-EF			
Q3	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q4	8-729-120-28	TRANSISTOR 2SC1623-L5L6			
Q5	8-729-807-87	TRANSISTOR 2SB1295-UL6			

The components identified by shading and mark ⚠ are critical for safety.
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REF.NO.	PART NO.	DESCRIPTION				REMARK
Q6	8-729-807-87	TRANSISTOR 2SB1295-UL6				
Q7	8-729-807-87	TRANSISTOR 2SB1295-UL6				
Q9	8-729-901-04	TRANSISTOR DTA114EK				
Q10	8-729-901-01	TRANSISTOR DTC144EK				
Q11	8-729-901-01	TRANSISTOR DTC144EK				
		<RESISTOR>				
JR01	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR02	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR03	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR08	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR09	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR11	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR14	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR15	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR17	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR18	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR19	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR20	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR21	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR23	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR24	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR25	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR26	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR202	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR203	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR221	1-216-295-00	METAL GLAZE	0	5%	1/10W	
JR222	1-216-295-00	METAL GLAZE	0	5%	1/10W	
R1	1-218-326-11	METAL GLAZE	470	5%	1/2W	
R2	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W	
R3	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R4	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R5	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R6	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R7	1-216-083-00	METAL GLAZE	27K	5%	1/10W	
R8	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R9	1-216-308-00	METAL GLAZE	4.7	5%	1/10W	
R10	1-218-325-11	METAL GLAZE	120	5%	1/4W	
R11	1-218-325-11	METAL GLAZE	120	5%	1/4W	
R12	1-218-325-11	METAL GLAZE	120	5%	1/4W	
R13	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R14	1-216-001-00	METAL GLAZE	10	5%	1/10W	
R15	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R16	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R17	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R18	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R19	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R21	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R22	1-216-168-00	METAL GLAZE	56	5%	1/8W	
R23	1-216-214-00	METAL GLAZE	4.7K	5%	1/8W	
R40	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R42	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R49	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R50	1-216-296-00	METAL GLAZE	0	5%	1/8W	
		<VARIABLE RESISTOR>				
RV1	1-238-012-11	RES, ADJ, CARBON 1K				
		<CRYSTAL>				
X1	1-579-266-31	CRYSTAL VIBRATOR				

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REF.NO.	PART NO.	DESCRIPTION	REMARK
		MISCELLANEOUS	
		**********	
⚠	1-426-145-21	COIL, DEGAUSSING	
⚠	1-451-249-31	DEFLECTION YOKE (Y14NDA2)	
	1-452-032-00	MAGNET, DISK; 10MM φ	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM φ	
	1-452-277-00	MAGNET, BMC	
	1-544-374-11	SPEAKER	
⚠	1-575-487-11	CORD,POWER (WITH NOISE FILTER)	
V901	⚠ 8-735-555-75	PICTURE TUBE (A34JBU10X)	

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ACCESSORIES AND PACKING MATERIALS
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PART NO.	DESCRIPTION	REMARK
1-417-154-11	MATCHING TRANSFORMER, ANTENNA	
1-501-372-21	ANTENNA, TELESCOPIC	
4-200-397-11	MANUAL, INSTRUCTION	
*4-200-423-01	CUSHION (LOWER) (ASSY)	
*4-200-424-01	CUSHION (UPPER) (ASSY)	
*4-200-426-01	INDIVIDUAL CARTON	
*4-384-927-01	BAG, PROTECTION	

REMOTE COMMANDER

1-465-562-12	CONTROL UNIT, REMOTE (RM-694)	
4-035-049-01	COVER, BATTERY (FOR RM-694)	

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